### Lifting Capacities

**SK200**

<table>
<thead>
<tr>
<th>SK200</th>
<th>SK210LC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td><strong>A</strong></td>
</tr>
<tr>
<td>Standard Arm: 2.94 m</td>
<td>Standard Arm: 2.94 m</td>
</tr>
<tr>
<td>Bucket: Without</td>
<td>Bucket: Without</td>
</tr>
<tr>
<td>Shoe: 600 mm</td>
<td>Shoe: 600 mm</td>
</tr>
<tr>
<td>Counterweight: 4,300 kg</td>
<td>Counterweight: 4,300 kg</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td><strong>B</strong></td>
</tr>
<tr>
<td>7.5 m kg</td>
<td>7.5 m kg</td>
</tr>
<tr>
<td>6.0 m kg</td>
<td>6.0 m kg</td>
</tr>
<tr>
<td>4.5 m kg</td>
<td>4.5 m kg</td>
</tr>
<tr>
<td>3.0 m kg</td>
<td>3.0 m kg</td>
</tr>
<tr>
<td>1.5 m kg</td>
<td>1.5 m kg</td>
</tr>
<tr>
<td>G.L. kg</td>
<td>G.L. kg</td>
</tr>
<tr>
<td>1.5 m kg</td>
<td>1.5 m kg</td>
</tr>
<tr>
<td>1.0 m kg</td>
<td>1.0 m kg</td>
</tr>
</tbody>
</table>

### Optional Equipment

- Additional track gauge
- Suspension seat
- Two cab lights
- N & B piping
- Refilling pump
- KOMEXS
- Arm interflow system
- Tinted safety glass
- Skylight
- Intermittent windshield wiper with double-spray washer
- Lights
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read multi-display color monitor
- Automatic swing brake
- Grease-type track adjusters
- Sealed & lubricated track links
- Two-speed travel with automatic shift down
- Automatic air conditioner
- Automatic engine shut-down
- Batteries (2 x 12V - 96Ah)
- Engine oil pan drain cock
- Automatic engine deceleration
- Power Boost
- Engine, HINO J05ETG-KSSG, diesel engine with turbocharger and intercooler
- Auto Idle Stop (AIS)
- Automatic engine shut-down
- 60 amp alternator
- Emergency escape hammer
- Twin element air cleaner
- Engine start switch
- Two control levers, pilot operated
- Tow eye
- Foot rest

### Notes:

1. Do not attempt to lift or hold any load that is greater than these lifting capacities at their specified lift point radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting capacities are based on machine standing on level, firm, and uniform ground. User must make allowances 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 lifting capacities are in compliance with 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.
5. 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.
6. Lifting capacities apply to lift machine originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

### Special Equipment

**Engine**

- Engine, HINO J05ETG-KSSG, diesel engine with turbocharger and intercooler
- Automatic engine deactivation
- Auto Idle Stop (AIS)
- Batteries (2 x 12V - 96AH)
- 60 amp alternator
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### CAB & CONTROL

- Two control levers, pilot operated
- Tow eye
- Foot rest
- Emergency escape hammer
- Twin element air cleaner
- Engine start switch

### SWING SYSTEM & TRAVEL SYSTEM

- Swing system
- Swing reboound prevention system
- Straight prop system
- Two-speed travel with automatic shift down
- Gearbox & fabricated track links
- Grease-type track adjusters
- Swing brake

### HYDRAULIC

- Arms regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Arm interflow system
- Hydraulic: Dead oil filter dog detector

### MIRRORS & LIGHTS

- Two rear view mirrors
- Four front working lights (one for boom, one for boom cylinder, one for right storage box and one for cab)

### Straight propel system

- Swing rebound prevention system
- Two control levers, pilot operated
- Tow eye
- Foot rest
- Emergency escape hammer
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- Engine start switch

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Power Meets Efficiency

To urban centers and mines around the world, Kobelco’s all-out innovation brings you durable earth-friendly construction machinery suitable for any task and sites all over the planet with greater fuel economy we deliver higher efficiency to any project.

Kobelco SK200 SK210LC machines are also more durable than ever, able to withstand the rigors of the toughest job sites. It all adds up to new levels of value that are a step ahead of the times. While 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 globally.
Evolution Continues, with Improved Fuel Efficiency.

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).

H-mode
- About 16% improvement

S-mode
- About 14% improvement

ECO-mode
- About 19% improvement

Always and Forever.
Over the past 10 years, Kobelco has achieved an average reduction of about 38% in fuel consumption. And we vow to continue to lead in fuel efficiency.

Hydraulic System: Revolutionary Technology Saves Fuel

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

The new arm interflow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency by about 16%*. The electronic-control common-rail engine features high-pressure fuel injection and multiple injection with improved precision.

Hydraulic Circuit Reduces Energy Loss

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

Larger hydraulic piping
Smoother hydraulic piping
Low-resistance connections

AIS (Auto Idle Stop)
If the safety lock lever is lifted up, the engine will stop automatically. This eliminates wasteful idling during standby, saving fuel and reducing CO2 emissions as well.

ECO-mode
Compared to SK210LC-6 model (2006)
- About 38% improvement

S-mode
Compared to SK210LC-6 model (2006)
- About 14% improvement

H-mode
Compared to SK210LC-6 model (2006)
- About 16% improvement

* Compared to H-mode on the SK200-8

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.

Evolution Continues, with Improved Fuel Efficiency.
More Power and Higher Efficiency.

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

Superior Digging Performance

Powerful digging force delivers outstanding performance.

- **Max. Bucket Digging Force**
  - Normal: 143kN
  - With power boost: 157kN
- **Max. Arm Crowding Force**
  - Normal: 102kN
  - With power boost: 112kN

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**: 228kN

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
- Fuel consumption/Switch indicator for rear camera images
- Digging mode switch
- Monitor display switch

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.

Improved Fuel Efficiency

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

Get More Done Faster with Superior Operability

Top class excavating reach extends working range.

- Max. digging reach: 9,900mm
- Max. digging depth: 6,700mm
- Max. vertical wall digging depth: 6,100mm

Values are for STD arm (2.94m)

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

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

A Light Touch on the Lever Means Smoother, Less Tiring Work

Drawbar Pulling Force: 228kN

- Values are for STD arm (2.94m)
Increased Power, with Enhanced Durability to Maintain the Machine's Value

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

1. **Enlarged Reinforcement of the Arm Foot**
   HD: Base plate thickness has been increased 1.3 times (20 t).

2. **Modified Foot Boss Shape**
   The arm foot boss shape has been modified and improved to distribute stress, delivering 2.6 times more strength for tasks like digging next to a wall.

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**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. New cover prevents contamination when changing filters.

- **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.

- **New Larger-size**

- **Enhanced durability**

- **Improved Filtration System Reliability**

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**Metal Mesh Cover Air Cleaner**
Metal mesh cover ensures strength and durability.

**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.
Comfortable Cab Is Now Safer than Ever.

A work environment that is quieter and more comfortable. A cab that puts the operator first is key to improved safety.

**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 vibration.

**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**

Super-Airtight Cab Air Conditioner Louvers

behind the Seat

**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.

**Interiors Equipment Adds to Comfort and Convenience**

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

**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.

**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.

**A work environment that is quieter and more comfortable. A cab that puts the operator first is key to improved safety.**
Efficient Maintenance Keeps the Machine in Peak Operating Condition.

Simple layout for easy access to radiator and cooling system elements

Engine oil pan equipped with drain valve.

Detachable two-piece floor mat with handles for easy removal. A floor drain is located under floor mat.

Floor mat’s raised edges help keep the cab floor free of mud, simplify cleaning.

Special crawler frame design for easy mud removal cleaning.

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

KOMEXS is the remote monitoring system for SK series excavators.

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.

Long-Interval Maintenance

Long-life hydraulic oil: 2,000 hours

Replacement cycle: 1,000 hours

Highly Durable Premium-fine Filter

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

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 of previous breakdowns including irregular and transient malfunction

Maintenance Work, Daily Checks, Etc., Can Be Done from Ground Level

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 engine hood is lighter and easier to raise and lower.

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 engine hood is lighter and easier to raise and lower.

Examples of displaying maintenance information
Specifications

**Engine**

<table>
<thead>
<tr>
<th>Model</th>
<th>HINO J05ETG 435G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler</td>
</tr>
<tr>
<td>No. of cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Bore and stroke</td>
<td>112 mm x 130 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>5.123 L</td>
</tr>
<tr>
<td>Rated power output</td>
<td>140 kW/2,000 min⁻¹ (ISO 9249)</td>
</tr>
<tr>
<td>Max. torque</td>
<td>34.3 MPa {350 kgf/cm²}</td>
</tr>
</tbody>
</table>

**Hydraulic System**

- **Pump**
  - Type: Two variable displacement pumps + one gear pump
  - Max. discharge flow: 2 x 220 L/min, 1 x 20 L/min
- **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 m
  - Min. front swing radius: 3.350 mm

**Attaching**

- **Bucket capacity**
  - ISO heaped m³: 1.14
  - ISO struck m³: 0.80
- **Opening width**
  - With side cutter mm: 2.45
  - Without side cutter mm: 2.11
- **No. of teeth**
  - 4
- **Bucket weight kg**
  - 4,540
- **Combination**
  - 2.94m standard arm

**Travel System**

- **Travel motors**
  - 3 x axial piston, two-step motors
- **Travel brakes**
  - Hydraulic brake per motor
- **Parking brakes**
  - Oil disc brake per motor
- **Travel shoes**
  - 46 each side (SK200)
  - 49 each side (SK210LC)
- **Travel speed**
  - 6.036 km/h
- **Drawbar pulling force**
  - 228 kN (ISO 7464)
- **Graddability**
  - 33.0 % {35°}

**Boom, Arm & Bucket**

- **Boom cylinders**
  - 120 mm x 1,355 mm
- **Arm cylinder**
  - 135 mm x 1,155 mm
- **Bucket cylinder**
  - 120 mm x 1,080 mm

**Reefing Capacities & Lubrications**

- **Fuel tank**
  - 320 L
- **Cooling system**
  - 18 L
- **Engine oil**
  - 20.5 L
- **Engine oil**
  - 20.5 L
- **Oil disc brake, hydraulic operated**
  - Swing control lever is in neutral position
- **Axial piston motor**
  - 114 kW/2,000 min⁻¹ (ISO 9249)
- **One gear pump**
  - 112 mm x 130 mm
- **Two variable displacement pumps + one gear pump**
  - 135 mm x 1,558 mm

**Operating Weight & Ground Pressure**

- **Counterweight kg**
  - 4,300
- **Lifting capacities in Kilograms**
  - 600
- **Rating over side or 360 degrees**
  - A: Reach from swing centerline to arm top
  - B: Arm top height above/below ground
  - C: Lifting capacities in Kilograms
  - Bucket: Without bucket
  - Relief valve setting: 34.3 MPa (350 kgf/cm²)

**Working Ranges**

- **Arm length**
  - Standard 2.94 m
  - Rating over side or 360 degrees
  - A: Reach from swing centerline to arm top
  - B: Arm top height above/below ground
  - C: Lifting capacities in Kilograms
  - Bucket: Without bucket

**Dimensions**

- **Arm length**
  - Standard 2.94 m
  - Rating over side or 360 degrees
  - A: Reach from swing centerline to arm top
  - B: Arm top height above/below ground
  - C: Lifting capacities in Kilograms
  - Bucket: Without bucket
  - Relief valve setting: 34.3 MPa (350 kgf/cm²)

**Lifting Capacities**

- **Rated over front**
  - Rating over side or 360 degrees
  - A: Reach from swing centerline to arm top
  - B: Arm top height above/below ground
  - C: Lifting capacities in Kilograms
  - Bucket: Without bucket
  - Relief valve setting: 34.3 MPa (350 kgf/cm²)