STANDARD EQUIPMENT

ENGINE
- Engine, HINO J05E, Diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Batteries (2 x 12V - 96Ah)
- Starting motor (24V - 5 kW), 50 amp alternator
- Removable clean-out screen for radiator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain valve
- Double element air cleaner

CONTROL
- Working mode selector (H-mode and S-mode)
- Power Boost
- Heavy lift

SWING SYSTEM & TRAVEL SYSTEM
- Swing rebound prevention system
- Straight propel system
- Swing priority system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- Automatic swing brake
- Tropical cooling package
- Three track guides for each crawler

HYDRAULIC
- Arm regeneration system
- Aluminum hydraulic oil cooler

MIRRORS & LIGHTS
- Two rearview mirrors
- Two front and two rear working lights
- Swing flashers

CAB & CONTROL
- Two control levers, pilot-operated
- Tow eyes
- Horn, electric
- Integrated left-right slide-type control box
- Cab, all-weather sound suppressed type
- Cab light (interior)
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Double slide seat
- Adjustable suspension seat
- Retractable seatbelt
- Headrest
- Handrails
- Heater and defroster
- Intermittent windshield wiper with double-spray washer
- Skylight
- Tinted safety glass
- Full-type front window and removable lower front window
- Easy-to-read multi-display monitor
- Automatic air conditioner
- Emergency escape hammer
- Travel alarm
- Refueling pump

OPTIONAL EQUIPMENT

- Radio, AM/FM Stereo with speakers
- Wide range of buckets
- Various optional arms
- Wide range of shoes
- Two cab working lights
- Front-guard protective structures
- Additional hydraulic circuit
- Head guard

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

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 advance notice.

KOBELCO CONSTRUCTION MACHINERY CO., LTD.
17-1, Higashigotanda 2-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN
Tel: +81 (0) 3-5789-2146 Fax: +81 (0) 3-5789-2135
www.kobelco-kenki.co.jp/english_index.html

Inquiries To:
STANDARD EQUIPMENT

ENGINE
- HINO J05E Diesel engine with turbocharger and intercooler
- Automatic engine decceleration
- Batteries (2 x 12V - 96Ah)
- Starting motor (24V - 5 kW), 50 amp alternator
- Removable clean-out screen for radiator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain valve
- Double element air cleaner

CONTROL
- Working mode selector (H-mode and S-mode)
- Power Boost
- Heavy lift

SWING SYSTEM & TRAVEL SYSTEM
- Swing rebound prevention system
- Straight propel system
- Swing priority system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Gear-type track adjusters
- Automatic swing brake
- Tropical cooling package
- Three track guides for each crawler

HYDRAULIC
- Arm regeneration system
- Aluminum hydraulic oil cooler

MIRRORS & LIGHTS
- Two rearview mirrors
- Two front and two rear working lights
- Swing flashers

CAB & CONTROL
- Two control levers, pilot-operated
- Tow eyes
- Horn, electric
- Integrated left-right slide-type control box
- Cab, all-weather sound suppressed type
- Cab light (interior)
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Double slide seat
- Adjustable suspension seat
- Retractable seatbelt
- Headrest
- Handrails
- Heater and defroster
- Intermittent windshield wiper with double-spray washer
- Skylight
- Tinted safety glass
- Full-type front window and removable lower front window
- Easy-to-read multi-display monitor
- Automatic air conditioner
- Emergency escape hammer
- Travel alarm
- Refueling pump

OPTIONAL EQUIPMENT

- Radio, AM/FM Stereo with speakers
- Wide range of buckets
- Various optional arms
- Wide range of shoes
- Two cab working lights
- Front-guard protective structures
- Additional hydraulic circuit
- Head guard

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

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.

Copyright by KOBELCO CONSTRUCTION MACHINERY CO., LTD. No part of this catalog may be reproduced in any manner without notice.
When we set out to design our new hydraulic excavators, we kept our eyes on the big picture. Of course we wanted machines with greater digging capacity. But they also had to be fuel-efficient and economical, while imposing less of a burden on the local and global environments. Applying our advanced technologies, we developed SK series excavator that beautifully balances all the demands of today’s construction industry.

Lean and efficient with capacity to spare, these sleek powerhouses bring a whole new style to the worksite while setting new standards for environmental responsibility.
When we set out to design our new hydraulic excavators, we kept our eyes on the big picture. Of course we wanted machines with greater digging capacity. But they also had to be fuel-efficient and economical, while imposing less of a burden on the local and global environments. Applying our advanced technologies, we developed SK series excavator that beautifully balances all the demands of today’s construction industry. Lean and efficient with capacity to spare, these sleek powerhouses bring a whole new style to the worksite while setting new standards for environmental responsibility.
Efficient Performance!

Amazing Productivity with a 20% Decrease in Fuel Consumption and “Top-Class” Cost-Performance

- **Fuel Consumption**: Decrease in fuel consumption even when performing more work volume. (S-Mode)
- **Work Volume**: Increase in work volume using the same amount of fuel. (H-Mode)

“Top-Class” Powerful Digging

- Max. arm crowding force: 102 kN (10.4 tf)
- Max. arm crowding force with power boost: 112 kN (11.4 tf)
- Max. bucket digging force: 143 kN (14.6 tf)
- Max. bucket digging force with power boost: 157 kN (16.0 tf)

Powerful Travel

- Drawbar pulling force: 229 kN (23.3 tf)

Greater Swing Power, Shorter Cycle Times

- Swing torque: 71.4 kN (52,662 lbs-ft)
- Swing speed: 12.5 min⁻¹

Significant Extension of Continuous Working Hours

The combination of a large-capacity fuel tank and excellent fuel efficiency delivers an impressive up to 20 working hours.**

Light Lever Operation

It takes 10% less effort to move the control levers, so that operators can work longer hours with less fatigue.

Fuel Consumption: Decrease in fuel consumption even when performing more work volume. (S-Mode)

Work Volume: Increase in work volume using the same amount of fuel. (H-Mode)

3E Technology Next-Generation Electronic Engine Control

The high-pressure, common-rail fuel-injection engine features a cooled EGR (Exhaust Gas Recirculation) device that lowers the air intake temperature to keep the oxygen concentration down. The multiple injection system features adjustable control to maximize fuel efficiency and provide powerful medium/low-speed torque. The result is a highly fuel-efficient engine that greatly reduces emissions of PM (particulate matter) and NOx into the atmosphere.

Simple Select: Two Digging Modes

- **H-Mode**: For heavy duty when a higher performance level is required.
- **S-Mode**: For normal operations with lower fuel consumption.

NAR (crusher and breaker)

The operator selects the desired mode from inside the cab, and the selector valve automatically configures the machine accordingly.

Attachment Mode Selector Switch

There’s a choice of three different attachment functions, to accommodate bucket, crusher or breaker, and the desired attachment mode can be selected with a switch, which automatically configures the selector valve. All attachment modes can be used in either S-mode or H-mode.

Seamless, Smooth Combined Operations

The SK series machines have inherited the various systems that make inching and combined operations easy and accurate, with further refinements that make a good thing even better. Leveling and other combined operations can be carried out with graceful ease.

- Electronic Active Control System
- Arm regeneration system
- Boom lowering system
- Variable swing priority system
- Swing rebound prevention system

3E Technology Total Tuning Through Advanced ITCS Control

The engine control is governed by ITCS, which responds quickly to sudden changes in hydraulic load to ensure that the engine runs as efficiently as possible with a minimum of wasted output.

ITCS (Intelligent Total Control System) is an advanced, computerized system that provides comprehensive control of all machine functions.
Efficient Performance!

Amazing Productivity with a 20% Decrease in Fuel Consumption and “Top-Class” Cost-Performance

- **Fuel Consumption**
  - Decrease in fuel consumption even when performing more work volume. (S-Mode)

- **Work Volume**
  - Increase in work volume using the same amount of fuel. (H-Mode)

“Top-Class” Powerful Digging

Max. arm crowding force: 102 kN (10.4 tf)
Max. arm crowding force with power boost: 112 kN (11.4 tf)
Max. bucket digging force: 143 kN (14.6 tf)
Max. bucket digging force with power boost: 157 kN (16.0 tf)

Powerful Travel

Drawbar pulling force: 229 kN (23.3 tf)

Greater Swing Power, Shorter Cycle Times

Swing torque: 71.4 kN (52,662 lbs-ft)
Swing speed: 12.5 min⁻¹

Significant Extension of Continuous Working Hours

The combination of a large-capacity fuel tank and excellent fuel efficiency delivers an impressive up to 20 working hours.

Light Lever Operation

It takes 10% less effort to move the control levers, so that operators can work longer hours with less fatigue.

Photos in this catalog are the optional specs with 0.93 m³ bucket and 800 mm shoes.

3E Technology Next-Generation Electronic Engine Control

The high-pressure, common-rail fuel-injection engine features a cooled EGR (Exhaust Gas Recirculation) device that lowers the air intake temperature to keep the oxygen concentration down. The multiple injection system features adjustable control to maximize fuel efficiency and provide powerful medium/low-speed torque. The result is a highly fuel-efficient engine that greatly reduces emissions of PM (particulate matter) and NOx into the atmosphere.

Simple Select: Two Digging Modes

- **H-Mode**
  - For heavy duty when a higher performance level is required.
- **S-Mode**
  - For normal operations with lower fuel consumption.

NAR (crusher and breaker)

The operator selects the desired mode from inside the cab, and the selector valve automatically configures the machine accordingly.

3E Technology New Hydraulic System

Rigorous inspections for pressure loss are performed on all components of the hydraulic piping, from the spool of the control valve to the connectors. This regimen, combined with the use of a new, high-efficiency pump, cuts energy loss to a minimum.

3E Technology Total Tuning Through Advanced ITCS Control

The engine control is governed by ITCS, which responds quickly to sudden changes in hydraulic load to ensure that the engine runs as efficiently as possible with a minimum of wasted output.

ITCS (Intelligent Total Control System) is an advanced, computerized system that provides comprehensive control of all machine functions.
The Value and Quality of Sturdy Construction!

Stable Attachment Strength
Forged and cast steel components are used throughout. The standard arm and boom also meet specifications that were classified as “reinforced” on previous KOBELCO models to ensure reliable strength.

Emergency Acceleration (Dial) Permits Continued Operation in the Unlikely Event of Malfunction
If unexpected trouble is experienced with the ITCS mechatronic control system, the machine can still be operated using the emergency acceleration system. Digging modes are also automatically relayed to an emergency system so that digging can continue temporarily until a service person arrives to repair the primary system.

Newly designed Micro Computer Unit
- Vertical alignment and sealed cover give better protection from water and dust
- Reliable fixture to base plate

Countermeasures Against Electrical System Failure
All elements of the electrical system, including controller, have been designed for high reliability.

Engine speed is automatically reduced when the control lever is placed in neutral, effectively saving fuel and reducing noise and exhaust emissions. The engine quickly returns to full speed when the lever is moved out of neutral. The proportional Deceleration recovery speed smoothly.

Low Noise Level and Mild Sound Quality
The electronically controlled common-rail engine has a unique fuel injection system that runs quietly. Also, the hydraulic pumps have been redesigned to produce a more pleasant sound during pressure relief. In short, the SK series meets all requirements cited in latest standards.

Meets EMC (Electromagnetic Compatibility) Standards in Europe.
Measures have been taken to ensure that the SK machines do not cause electro-magnetic interference.

Heavy Duty Upper Carbody and Side Frames
The structure of the lower portion of the upper frame has been reassessed and the undercover area has been minimized. Also, the side deck’s cross-sectional strength has been boosted by 50%.

High Durability That Retains Machine Value Five and Ten Years in the Future
- Operator’s seat covered in durable material
- High-quality urethane paint
- Easily repaired bolted hand rails

Heavy Duty Attachments
15% strength up around arm top section
The Value and Quality of Sturdy Construction!

Stable Attachment Strength
Forged and cast steel components are used throughout. The standard arm and boom also meet specifications that were classified as “reinforced” on previous KOBELCO models to ensure reliable strength.

Emergency Acceleration (Dial) Permits Continued Operation in the Unlikely Event of Malfunction
If unexpected trouble is experienced with the ITCS mechatronic control system, the machine can still be operated using the emergency acceleration system. Digging modes are also automatically relayed to an emergency system so that digging can continue temporarily until a service person arrives to repair the primary system.

Newly designed Micro Computer Unit
- Vertical alignment and sealing cover gives better protection from water and dust
- Reliable fixture to base plate

Countermeasures Against Electrical System Failure
All elements of the electrical system, including controller, have been designed for high reliability.

Engine speed is automatically reduced when the control lever is placed in neutral, effectively saving fuel and reducing noise and exhaust emissions. The engine quickly returns to full speed when the lever is moved out of neutral. The proportional Deceleration recovery speed smoothly.

Automatic Acceleration/Deceleration Function Reduces Engine Speed

Low Noise Level and Mild Sound Quality
The electronically controlled common-rail engine has a unique fuel injection system that runs quietly. Also, the hydraulic pumps have been redesigned to produce a more pleasant sound during pressure relief. In short, the SK series meets all requirements cited in latest standards.

Meets EMC (Electromagnetic Compatibility) Standards in Europe.

Heavy Duty Upper Carbody and Side Frames
The structure of the lower portion of the upper frame has been reassessed and the undercover area has been minimized. Also, the side deck’s cross-sectional strength has been boosted by 50%.

High Durability That Retains Machine Value Five and Ten Years in the Future
- Operator’s seat covered in durable material
- High-quality urethane paint
- Easily repaired bolted hand rails

Heavy Duty Attachments
15% strength up around arm top section

Designed for the Environment and the Future!
“On the Ground” Maintenance!

**Comfortable “On the Ground” Maintenance**

The machine layout was designed with easy inspection and maintenance in mind.

A new fuel filter has been installed that can handle the most punishing conditions. Double pre-fuel filters with built-in water separator and high-grade main fuel filter.

Quick Oil Drain Valves for Quick Maintenance

A quick drain valve, which requires no tools, is provided as standard equipment.

To facilitate fuel tank cleaning, the fuel drain valve fitted with a flange on the bottom.

**Efficient Maintenance Inside the Cab**

- Detachable two-piece floor mat with handles for easy removal. A floor drain is located under the mat.
- Easy-access fuse box with differential air fuses, easy to locate malfunctions.
- Air conditioner filter can be easily removed without tools for cleaning.
- Hour meter can be checked while standing on the ground.
- Large-capacity tool box can hold up to three pails.
- Special crawler frame design is easily cleaned of mud.

Highly Durable Super-fine Filter

The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability. With a replacement cycle of 1,000 hours and a construction that allows replacement of the filter element only, it’s both highly effective and highly economical.

Double-Element Air Cleaner as Standard

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

Monitor Display with Essential Information for Accurate Maintenance Checks

- Displays only the maintenance information that’s needed, when it’s needed.
- Self-diagnostic function that provides early-warning detection and display of electrical system malfunctions.
- Record previous breakdowns, including irregular and transient malfunctions.

Choice of 16 Languages for Monitor Display

With messages including those requiring urgent action displayed in the local language, users in all parts of the world can work with greater peace of mind.

**Chinese** | **German** | **English** | **English (US)**
---|---|---|---
**French** | **Indonesian** | **ISO** | **Italian**
**Japanese** | **Malay** | **Myanmar (Burmese)** | **Portuguese**
**Spanish** | **Tamil** | **Thai** | **Vietnamese**

Photos in this catalog are the optional specs with 0.93 m³ bucket and 800 mm shoes.
“On the Ground” Maintenance!

**Comfortable “On the Ground” Maintenance**

The machine layout was designed with easy inspection and maintenance in mind.

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

**Efficient Maintenance Inside the Cab**

- Quick Oil Drain Valves for Quick Maintenance
  - A quick drain valve, which requires no tools, is provided as standard equipment.
  - To facilitate fuel tank cleaning, the fuel drain valve fitted with a flange on the bottom.

- Efficient Maintenance Inside the Cab
  - Detachable two-piece floor mat with handles for easy removal.
  - Easy-access fuse box with differential fuses, easy to locate malfunctions.
  - Air conditioner filter can be checked while standing on the ground.
  - Large-capacity tool box can hold up to three pails.
  - Special crawler frame design is easily cleaned of mud.

**Quick Oil Drain Valves for Quick Maintenance**

A new fuel filter has been installed that can handle the most punishing conditions. Double pre-fuel filters with built-in water separator and high-grade main fuel filter.

- A quick drain valve, which requires no tools, is provided as standard equipment.
- To facilitate fuel tank cleaning, the fuel drain valve fitted with a flange on the bottom.

**Highly Durable Super-fine Filter**

The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability. With a replacement cycle of 1,000 hours and a construction that allows replacement of the filter element only, it’s both highly effective and highly economical.

- Double-Element Air Cleaner as Standard
  - The large-capacity element features a double-filter structure that keeps the engine running clean even in dusty environments.

**Monitor Display with Essential Information for Accurate Maintenance Checks**

- Displays only the maintenance information that’s needed, when it’s needed.
- Self-diagnostic function that provides early-warning detection and display of electrical system malfunctions.
- Record previous breakdowns, including irregular and transient malfunctions.

**Choice of 16 Languages for Monitor Display**

With messages including those requiring urgent action displayed in the local language, users in all parts of the world can work with greater peace of mind.

Photos in this catalog are the optional specs with 0.93 m³ bucket and 800 mm shoes.
**Comfort and Safety**

**Designed from the Operator’s Point of View**

**Wide Field of View Liberates the Operator**

The front field of view easily clears ISO standards, while the peripheral view reduces blind spots to a minimum.

- A long wiper covers a wide area for a broad view in bad weather.
- Back mirrors provide a safe view of the rear.
- Tempered glass windows.

**Wide-Access Cab Ensures Smooth Entry and Exit**

The left control box and safety lock lever together rise through 54° to give wider cab access and easier entry and exit.

**Plenty of Foot Room**

Front-to-back foot room in the cab is a comfortable 750 mm. Big travel pedal for operator comfort.

**Low Vibration for Fatigue-Free Operation**

The rigid cab construction and liquid-filled viscous cab mounts minimize cab vibration. In addition, the use of new lower rollers on the crawlers cuts travel vibration in half compared with previous models.

**Creating a Comfortable Operating Environment**

- Seat can be reclined to almost horizontal position
- One-touch lock release simplifies opening and closing the front window
- Large cup holder
- Powerful automatic air conditioner
- Spacious luggage tray
- Two-speaker FM radio with station select
- Interior design and materials create an elegant feel
- Swing flashers/rear working lights
- Thermal guard prevents contact with hot components during engine inspections
- Retractable seatbelt requires no manual adjustment
- Front-to-back foot room in the cab is a comfortable 750 mm. Big travel pedal for operator comfort.

**Newly Designed Information Display Prioritizes Visual Recognition**

The analog gauge provides information that’s easy to read regardless of the operating environment. Big screen to display information with a attached visor to further enhance visibility.

**Imagining Possible Scenarios and Preparing in Advance**

- Bracket for Attaching a Head Guard Provided as Standard Equipment
  - A bracket is provided as standard equipment that allows the optional head guard to be simply bolted on.

- Safety Features That Take Various Scenarios into Consideration
  - Firewall separates the pump compartment from the engine
  - Swing flashers/rear working lights
  - Thermal guard prevents contact with hot components during engine inspections
  - Retractable seatbelt requires no manual adjustment

**Other Features**

- Two cab working lights (Optional)
- Adjustable suspension seat
Designed from the Operator’s Point of View

Wide Field of View Liberates the Operator
The front field of view easily clears ISO standards, while the peripheral view reduces blind spots to a minimum.

Wide-Access Cab Ensures Smooth Entry and Exit
The left control box and safety lock lever together rise through 54° to give wider cab access and easier entry and exit.

Wide-Access Cab Ensures Smooth Entry and Exit

Creating a Comfortable Operating Environment

- Seat can be reclined to almost horizontal position
- Double slide and suspension seat
- Powerful automatic air conditioner
- Spacious luggage tray
- Two-speaker FM radio with station select
- Interior design and materials create an elegant feel

Low Vibration for Fatigue-Free Operation
The rigid cab construction and liquid-filled viscous cab mounts minimize cab vibration. In addition, the use of new lower rollers on the crawlers cuts travel vibration in half compared with previous models.

Plenty of Foot Room
Front-to-back foot room in the cab is a comfortable 750 mm. Big travel pedal for operator comfort.

Newly Designed Information Display Prioritizes Visual Recognition
The analog gauge provides information that’s easy to read regardless of the operating environment. Big screen to display information with a attached visor to further enhance visibility.

Imagining Possible Scenarios and Preparing in Advance

Bracket for Attaching a Head Guard Provided as Standard Equipment
A bracket is provided as standard equipment that allows the optional head guard to be simply bolted on.

Safety Features That Take Various Scenarios into Consideration
- Firewall separates the pump compartment from the engine
- Hammer for emergency exit
- Swing flashers/shear working lights
- Thermal guard prevents contact with hot components during engine inspections
- Retractable seatbelt requires no manual adjustment

Other Features
- Two cab working lights (Optional)
- Adjustable suspension seat

Comfort and Safety
Specifications

### Engine
**Model:** HINO J05E
**Type:** Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler

- **No. of cylinders:** 4
- **Bore and stroke:** 112 mm x 130 mm
- **Displacement:** 5,123 L
- **Rated power output:** 229 kW (309 HP) / 2,000 rpm

### Pump
- **Type:** Two variable displacement pumps + 1 gear pump
- **Max. discharge flow:** 230 L/min
- **Max. torque:** 592 N·m
- **Displacement:** 135 mm³

### Swing System
- **Type:** Axial-piston motor
- **Swing speed:** 7.2 L/min-1 (rpm)
- **Travel reduction gear:** 2.0 L/min
- **Swing reduction gear:** 2.4 L/min
- **Boom cylinders:** 120 mm
- **Arm cylinder:** 135 mm
- **Bucket cylinder:** 120 mm

### Cab & Control
- **Control circuit:** 5.0 MPa
- **Swing circuit:** 29.0 MPa
- **Travel circuit:** 34.3 MPa
- **Power Boost:** 37.8 MPa
- **Boom, Arm and Bucket:** 34.3 MPa

### Refilling Capacities & Lubrications
- **Boom, Arm & Bucket:** 230 L, 5.3 L, 1,080 mm
- **Cab & Control:** 5.3 L, 1,080 mm
- **Travel System:** 6.68 L, 1,080 mm

### Hydraulic System
- **Type:** Two variable displacement pumps + 1 gear pump
- **Max. discharge flow:** 230 L/min

### Attachments
- **Bucket:** 2.40 m (8'), 2.94 m (9') arm combination
- **Shoe width (600 mm):** 1,060 mm, 1,300 mm
- **No. of bucket teeth:** 5
- **Bucket weight:** 810 kg, 790 kg

### Working Ranges

#### Boom & Arm
- **Boom length:** 2,940 mm (8'), 2,990 mm (10')
- **Arm length:** 2,750 mm (9'), 2,860 mm (10')

#### Digging Force
- **ISO 6015 Standard Arm:** 143 (14.5), 157 (16.0)
- **ISO 6015 Short Arm:** 121 (12.3), 133 (13.5)

#### Refilling Capacities
- **Bucket:** 370 L, 370 L
- **Engine oil:** 22 L, 22 L
- **Cooling system:** 22 L, 22 L
- **Fuel tank:** 370 L, 370 L

#### Dimensions
- **Overall length:** 21,300 mm (8'), 21,700 mm (10')
- **Overall height:** 3,160 mm (8'), 2,980 mm (10')

### Operating Weight & Ground Pressure
- **Operating weight (Heavy):** 21,300 kg, 21,200 kg

---

*Without including height of shoe lug.*
Specifications

**Engine**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>HINO J05E</td>
</tr>
<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>372 HP/ 2,000 rpm (ISO14396:2002)</td>
</tr>
<tr>
<td>Max. torque</td>
<td>592 N</td>
</tr>
</tbody>
</table>

**Swing System**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swing motors</td>
<td>Axial piston motor</td>
</tr>
<tr>
<td>Brake</td>
<td>Hydraulic, locking automatically when the swing control lever is in the neutral position</td>
</tr>
<tr>
<td>Parking brake</td>
<td>Hydraulic disc brake</td>
</tr>
<tr>
<td>Swing speed</td>
<td>12.5 min⁻¹ (rpm)</td>
</tr>
<tr>
<td>Tail swing radius</td>
<td>2,750 mm</td>
</tr>
<tr>
<td>Min. front swing radius</td>
<td>3,540 mm</td>
</tr>
</tbody>
</table>

**Pump**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Two variable displacement pumps + 1 gear pump</td>
</tr>
<tr>
<td>Max. discharge flow</td>
<td>2 X 220 L/min, 1 X 220 L/min</td>
</tr>
<tr>
<td>Relief valve setting</td>
<td>34.3 MPa (345 kgf/cm²)</td>
</tr>
<tr>
<td>Power Boost</td>
<td>37.8 MPa (385 kgf/cm²)</td>
</tr>
<tr>
<td>Swing circuit</td>
<td>34.3 MPa (350 kgf/cm²)</td>
</tr>
<tr>
<td>Swing speed</td>
<td>28.0 MPa (296 kgf/cm²)</td>
</tr>
<tr>
<td>Control circuit</td>
<td>5.0 MPa (50 kgf/cm²)</td>
</tr>
<tr>
<td>Pilot control pump</td>
<td>Water type</td>
</tr>
<tr>
<td>Main control valves</td>
<td>8-speed</td>
</tr>
</tbody>
</table>

**Oil cooler**

| Type          | Air cooled type |

**Boom, Arm & Bucket**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom cylinders</td>
<td>120 mm x 1.355 mm</td>
</tr>
<tr>
<td>Arm cylinder</td>
<td>135 mm x 1.558 mm</td>
</tr>
<tr>
<td>Bucket cylinder</td>
<td>120 mm x 1.080 mm</td>
</tr>
</tbody>
</table>

**Hydraulic System**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Two variable displacement pumps + 1 gear pump</td>
</tr>
<tr>
<td>Max. discharge flow</td>
<td>2 X 220 L/min, 1 X 220 L/min</td>
</tr>
<tr>
<td>Relief valve setting</td>
<td>34.3 MPa (345 kgf/cm²)</td>
</tr>
<tr>
<td>Power Boost</td>
<td>37.8 MPa (385 kgf/cm²)</td>
</tr>
<tr>
<td>Swing circuit</td>
<td>34.3 MPa (350 kgf/cm²)</td>
</tr>
<tr>
<td>Swing speed</td>
<td>28.0 MPa (296 kgf/cm²)</td>
</tr>
<tr>
<td>Control circuit</td>
<td>5.0 MPa (50 kgf/cm²)</td>
</tr>
<tr>
<td>Pilot control pump</td>
<td>Water type</td>
</tr>
<tr>
<td>Main control valves</td>
<td>8-speed</td>
</tr>
</tbody>
</table>

**Oil cooler**

| Type          | Air cooled type |

**Travel System**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel motors</td>
<td>2 × axial-piston, two-step motors</td>
</tr>
<tr>
<td>Travel brakes</td>
<td>Hydraulic disc brake</td>
</tr>
<tr>
<td>Parking brakes</td>
<td>0.5 disc brake per motor</td>
</tr>
<tr>
<td>Travel shoes</td>
<td>49 each side</td>
</tr>
<tr>
<td>Travel speed</td>
<td>60.3 km/h</td>
</tr>
<tr>
<td>Drawbar pulling force</td>
<td>229 kgf/23.3 kN (ISO 7464)</td>
</tr>
<tr>
<td>Gradeability</td>
<td>70 % (35°)</td>
</tr>
<tr>
<td>Ground clearance</td>
<td>450 mm</td>
</tr>
</tbody>
</table>

**Refilling Capacities & Lubrications**

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom, Arm &amp; Bucket</td>
<td>146 L tank oil level 230 L hydraulic system</td>
</tr>
<tr>
<td>Cab &amp; Control</td>
<td>22 L</td>
</tr>
<tr>
<td>Travel System</td>
<td>22 L</td>
</tr>
<tr>
<td>Engine</td>
<td>22 L</td>
</tr>
<tr>
<td>Attachments</td>
<td>22 L</td>
</tr>
</tbody>
</table>

**Attacments**

*Backhoe bucket and arm combination*

<table>
<thead>
<tr>
<th>Use</th>
<th>Bucket capacity</th>
<th>Opening width</th>
<th>No. of bucket teeth</th>
<th>Bucket weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy digging</td>
<td>ISO heaped m³</td>
<td>mm</td>
<td></td>
<td>kg</td>
</tr>
<tr>
<td>Normal digging</td>
<td>Struck m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.8</td>
<td>0.59</td>
<td>1,060</td>
<td>5</td>
<td>810</td>
</tr>
<tr>
<td>0.93</td>
<td>0.67</td>
<td>1,300</td>
<td>5</td>
<td>790</td>
</tr>
</tbody>
</table>

**Cab & Control**

- All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts and equipped with a heavy, insulated floor mat.
- Two hand levers and two foot pedals for travel
- Electric rotary-type engine throttle

**Working Ranges**

<table>
<thead>
<tr>
<th>Range</th>
<th>Value (Unit: m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>Short</td>
</tr>
<tr>
<td>Arm length</td>
<td>2.4 m</td>
</tr>
<tr>
<td>Swing</td>
<td>5.3 m</td>
</tr>
<tr>
<td>Tumbler distance</td>
<td>3.56 m</td>
</tr>
<tr>
<td>Ground clearance at ground level</td>
<td>4.08 m</td>
</tr>
<tr>
<td>Arm crowning force</td>
<td>121 (12.3)</td>
</tr>
<tr>
<td>Bucket digging force</td>
<td>143 (14.6)</td>
</tr>
</tbody>
</table>

*Power Boost engaged.

**Operating Weight & Ground Pressure**

In standard trim, with standard boom, 2.94 m arm, and 0.8 m³ ISO heaped bucket

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value (Unit: kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoe width</td>
<td>3,030</td>
</tr>
<tr>
<td>Tripod</td>
<td>3,190</td>
</tr>
<tr>
<td>Overall width</td>
<td>2,990</td>
</tr>
<tr>
<td>Overall length</td>
<td>2,990</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>34 (0.34)</td>
</tr>
<tr>
<td>Operating weight</td>
<td>143 (14.3)</td>
</tr>
</tbody>
</table>

*Without including height of shoe lug.

---

**Dimensions**

<table>
<thead>
<tr>
<th>Component</th>
<th>Value (Unit: mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom length</td>
<td>5.65 m</td>
</tr>
<tr>
<td>Joint gauge</td>
<td>4,450</td>
</tr>
<tr>
<td>Swing reduction</td>
<td>1,355</td>
</tr>
<tr>
<td>Boom crowning force</td>
<td>112 (1.1)*</td>
</tr>
</tbody>
</table>

---

**Working Ranges**

<table>
<thead>
<tr>
<th>Range</th>
<th>Value (Unit: m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>Short</td>
</tr>
<tr>
<td>Arm length</td>
<td>2.4 m</td>
</tr>
<tr>
<td>Swing</td>
<td>5.3 m</td>
</tr>
<tr>
<td>Tumbler distance</td>
<td>3.56 m</td>
</tr>
<tr>
<td>Ground clearance at ground level</td>
<td>4.08 m</td>
</tr>
<tr>
<td>Arm crowning force</td>
<td>121 (12.3)</td>
</tr>
<tr>
<td>Bucket digging force</td>
<td>143 (14.6)</td>
</tr>
</tbody>
</table>

*Power Boost engaged.

**Operating Weight & Ground Pressure**

In standard trim, with standard boom, 2.94 m arm, and 0.8 m³ ISO heaped bucket

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value (Unit: kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoe width</td>
<td>3,030</td>
</tr>
<tr>
<td>Tripod</td>
<td>3,190</td>
</tr>
<tr>
<td>Overall width</td>
<td>2,990</td>
</tr>
<tr>
<td>Overall length</td>
<td>2,990</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>34 (0.34)</td>
</tr>
<tr>
<td>Operating weight</td>
<td>143 (14.3)</td>
</tr>
</tbody>
</table>

*Without including height of shoe lug.
**Lifting Capacities**

**SK210LC**

- **Standard Arm: 2.94 m, Bucket: 0.8 m³ ISO heaped**
- **Radius:** 1.5 m, 3.0 m, 4.5 m, 6.0 m, 7.5 m
- **At Max. Reach:** Radius
- **7.5 m kg**
  - *13,790* 11,710 8,650 6,550 4,600 3,650 2,700 *3,140 2,180 8.02 m
- **6.0 m kg**
  - *8,550* 6,600 5,700 3,700 4,700 3,700 2,700 *3,140 2,180 7.42 m
- **4.5 m kg**
  - *6,570* 5,670 4,770 2,770 3,770 2,770 1.87 m
- **3.0 m kg**
  - *2,770* 1,870 1.870 1.870 1.870 1.870 1.870 1.870 1.870 1.870 1.870 1.870 1.870
- **1.5 m kg**
  - *8,550* 6,600 5,700 3,700 4,700 3,700 2,700 *3,140 2,180 8.02 m
- **G.L. kg**
  - *8,550* 6,600 5,700 3,700 4,700 3,700 2,700 *3,140 2,180 8.02 m

**Note:**
1. 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.
2. Lift capacities are based on machine standing on level, firm, and uniform ground. Users 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.
3. 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.
4. 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.
5. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

---

**SK210LC**

- **Standard Arm: 2.4 m, Bucket: 0.8 m³ ISO heaped**
- **Radius:** 1.5 m, 3.0 m, 4.5 m, 6.0 m, 7.5 m
- **At Max. Reach:** Radius
- **7.5 m kg**
  - *11,510* 9,510 6,510 4,510 2,510 1.31 m
- **6.0 m kg**
  - *7,330* 5,330 2,330 1.31 m
- **4.5 m kg**
  - *3,140* 2,140 1.31 m
- **3.0 m kg**
  - *9,210* 6,210 4,210 2,210 1.31 m
- **1.5 m kg**
  - *10,810* 6,910 3,910 1.31 m
- **G.L. kg**
  - *8,460* 6,460 4,460 2,460 1.31 m

---

**SK210LC**

- **Standard Arm: 2.4 m, Bucket: 0.8 m³ ISO heaped**
- **Radius:** 1.5 m, 3.0 m, 4.5 m, 6.0 m, 7.5 m
- **At Max. Reach:** Radius
- **7.5 m kg**
  - *7,630* 5,630 2,630 1.31 m
- **6.0 m kg**
  - *5,680* 3,680 1.31 m
- **4.5 m kg**
  - *3,140* 1,140 1.31 m
- **3.0 m kg**
  - *9,210* 7,210 5,210 3,210 1.31 m
- **1.5 m kg**
  - *10,810* 8,810 6,810 4,810 1.31 m
- **G.L. kg**
  - *8,460* 6,460 4,460 2,460 1.31 m

---

**Notes:**
1. 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.
2. Lift capacities are based on machine standing on level, firm, and uniform ground. Users 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.
3. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.
### Lifting Capacities

#### SK210LC

<table>
<thead>
<tr>
<th>Radius</th>
<th>1.5 m</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>At Max. Reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5 m</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
</tr>
<tr>
<td>7.5 m</td>
<td>6,680</td>
<td>9,080</td>
<td>10,340</td>
<td>11,330</td>
<td>11,330</td>
<td>11,340</td>
</tr>
<tr>
<td>8.0 m</td>
<td>7,680</td>
<td>10,840</td>
<td>12,140</td>
<td>13,030</td>
<td>13,030</td>
<td>13,030</td>
</tr>
<tr>
<td>8.5 m</td>
<td>8,080</td>
<td>11,190</td>
<td>12,490</td>
<td>13,580</td>
<td>13,580</td>
<td>13,580</td>
</tr>
<tr>
<td>9.0 m</td>
<td>8,480</td>
<td>12,690</td>
<td>14,180</td>
<td>15,180</td>
<td>15,180</td>
<td>15,180</td>
</tr>
<tr>
<td>9.5 m</td>
<td>8,880</td>
<td>13,990</td>
<td>15,690</td>
<td>16,690</td>
<td>16,690</td>
<td>16,690</td>
</tr>
<tr>
<td>10.0 m</td>
<td>9,280</td>
<td>15,390</td>
<td>17,390</td>
<td>18,390</td>
<td>18,390</td>
<td>18,390</td>
</tr>
<tr>
<td>10.5 m</td>
<td>9,780</td>
<td>16,990</td>
<td>19,290</td>
<td>20,290</td>
<td>20,290</td>
<td>20,290</td>
</tr>
<tr>
<td>11.0 m</td>
<td>10,280</td>
<td>18,790</td>
<td>21,390</td>
<td>22,390</td>
<td>22,390</td>
<td>22,390</td>
</tr>
<tr>
<td>11.5 m</td>
<td>10,780</td>
<td>20,790</td>
<td>23,690</td>
<td>24,690</td>
<td>24,690</td>
<td>24,690</td>
</tr>
<tr>
<td>12.0 m</td>
<td>11,280</td>
<td>22,990</td>
<td>25,890</td>
<td>26,890</td>
<td>26,890</td>
<td>26,890</td>
</tr>
</tbody>
</table>

#### Notes:

1. 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.
2. 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.
3. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

### Additional Information

- **Max. discharge pressure:** 37.8 MPa (385 kg/cm²)
- **Rating over front:**
- **Rating over side or 360 degrees:**
- **Bucket hook defined as lift point.**
- **The above lifting capacities are in compliance with ISO 10567. They do not exceed:**
  - 87% of hydraulic lifting capacity
  - 75% of tipping load
- Lifting capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

---

**A - Reach from swing centerline to bucket hook
B - Bucket hook height above/below ground
C - Lifting capacities in kilograms**

**•** Weight of all accessories must be deducted from the above lift capacities.

**Rating over front**

**Rating over side or 360 degrees**