SK300LC Specifications: 21' 3" (6.5 m) bucket, 21' 3" (6.5 m) reach

### Lifting Capacities

**SK300LC**

**Lifting Capacities in pounds (kilograms)**

<table>
<thead>
<tr>
<th>Bucket Capacity</th>
<th>Engine Power</th>
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<td>0.75 - 1.875 cu. yd. SAE</td>
<td>252hp (188 kW) @ 2,100 rpm</td>
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**Operating Weight**: 68,100lbs (30,900 kg)

**Powered by**

**KOBELCO CONSTRUCTION MACHINERY U.S.A. INC.**

22550 I-10 West, Katy, Texas 77449

http://www.kobelco-usa.com

**Inquiries To**: 1-800-258-8686

**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 more information.
Power Meets 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 SK300LC 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.
The highly efficient hydraulic system minimizes fuel consumption while maximizing power. With nimble movement and outstanding digging power, this excavator improves job productivity.

Efficient Performance! Top-Class Powerful Digging

Power to do more, faster

Digging Volume

The SK300LC offers dynamic digging force even as it minimizes fuel consumption, achieving class-leading work volume. H-mode is used for maximum productivity, delivering 5% greater digging volume.

Heavy Lift

High 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 with no time limit.

- Max. Bucket Digging Force (ISO 6015) With Power Boost: 46,800lbs (208kN)

Drawbar Pulling Force (SAE J1309)

Excellent drawbar force lets you conquer rough terrain and slopes. 62,900lbs (280kN)

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.

Revolutionary technology boosts efficiency and minimizes fuel consumption

ECO-mode: engineered for economy

Kobelco’s ECO-mode maximizes the operating efficiency of the engine and other components to achieve much greater fuel efficiency. Just press a button to choose the operation mode best suited to the task at hand and the working conditions.

H-mode

Maximum power for maximum productivity on your toughest jobs

S-mode

Ideal balance of productivity and fuel efficiency for a range of urban engineering projects

ECO-mode

Minimum fuel consumption for utility projects and other work that demands precision

Boom to Arm Regeneration System

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.

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.

SCR System with DEF

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 a much cleaner machine meeting US EPA regulations for Tier IV final.

*80% cleaner than Tier IV Interim

Optimal operation with three modes

H-mode

Maximum power for maximum productivity on your toughest jobs

S-mode

Ideal balance of productivity and fuel efficiency for a range of urban engineering projects

ECO-mode

Minimum fuel consumption for utility projects and other work that demands precision

Emission control means higher efficiency
Increased power with enhanced durability to maintain the machine’s value

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

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.

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.

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.

Built to Operate in Tough Working Environments

Redesigned boom offers excellent durability during demanding work conditions to reliably handle work volume.

1. Newly designed boom

Increased boom foot cross section for improved durability against tensile stress.

Three Track Guides

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

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

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.

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.

Expanded field of view for greater safety

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

Right side view of ROPS cab

Standard ROPS, 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).

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

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

- Bluetooth installed AM/FM stereo radio
- Spacious storage tray
- Large cup holder
- USB connector/12V power outlet

Interior equipment adds to comfort and convenience

- Seat back can be lowered flat
- Double slides allow adjustment for optimum comfort
- Suspension seat absorbs vibration

**Quiet Inside**

- 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 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.

**More comfortable seat means higher productivity**

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

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

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

*Compared to SK350LC-8 model*
**Efficient maintenance keeps the machine in peak operating condition**

**Easy, on-the-spot maintenance**

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.

**Ground-level Access**

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

- Fuel filter
- Engine oil filter
- DEF fill
- Step/storage box
- DEF fill location
- Storage box

**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**

- Detachable two-piece foot mat with handles for easy removal.
- Fuel tank features bottom flange and large drain valve for easy maintenance.

**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.

- 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

- 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.

- Graph of Work Content
  - The graph shows how working hours are divided among different operating categories, including digging, idling, traveling, and optional operations (N&B).

- Examples of displaying maintenance information

**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, travelling, and optional operations (N&B).
### Specifications

#### Engine
- Model: HINO J08EVV-KSDP
- Type: Water-cooled, 400hp Cylinder direct injection type diesel engine with intercooler turbo-charger(compatible with EU/NNRMM) Stage IV, EPA Tier IV Final

#### Number of cylinders
- Bore and stroke: 4.14" x 3.12" (106 x 79 mm)

#### Displacement
- 468.9 cu.in (7.68 L)

#### Rated power output
- 725psi (5.0 MPa)

#### Max. torque
- 750 ft-lb (1017 Nm)

#### Oil cooler
- Main control valves
- Pilot control pump
- Control circuit
- Swing circuit

#### Hydraulic System
- Type: Two-Variable displacement pumps + One gear pump
- Max. discharge flow: 2 x 65 U.S. gpm (2 x 246 L/min)
- Main control valves: Gear type
- Main control valves: 8-spool
- Oil cooler: Air-cooled type

#### Boom, Arm & Bucket
- Boom cylinder: 2-5.5" x 140" (65 x 3,556 mm)
- Arm cylinder: 1-5.5" x 130" (32 x 3,292 mm)
- Bucket cylinder: 1-5.1" x 130" (32 x 3,292 mm)

#### Refilling Capacities & Lubrications
- Fuel tank: 132.9 U.S. gal (503 L)
- Coolant system: 9.2 U.S. gal (35 L)
- Engine oil: 7.5 U.S. gal (28 L)
- Travel reduction gear: 2 x 0.5 U.S. gal (2 x 1.9 L)
- Swing reduction gear: 2 x 0.5 U.S. gal (2 x 1.9 L)
- Hydraulic oil tank: 108.3 U.S. gal (410 L)
- Def/AdBlue tank: 21.9 U.S. gal (81 L)

#### Operating Weight & Ground Pressure
- In standard trim, with standard boom, 102" (10.1 m) arm, and 1.57 cu.yd (1.2 m³) SAE heaped bucket

#### Dimensions
- Overall length: 39'9" (12.1 m)
- Overall width: 10'6" (3.2 m)
- Overall height (to top of cab): 11'3" (3.4 m)
- Arm length: 13'1" (4.0 m)
- Max. digging depth: 8.3 (57") (8.4 (58")
- Ground clearance: 8.2" (208 mm)

#### Cab & Control
- All-weather, sound-suppressed steel cab mounted on the silicon-sealed suspension mounts and equipped with a heavy, insulated floor mat.
- Air conditioning: Electric rotary-type engine throttle
- Electric horn: Two hand levers for excavating and swing
- Control: Suspension mounts and equipped with a heavy, insulated floor mat.

#### Hydraulic System
- Relief valve setting: 2,525psi (17.4 MPa)
- Swing motor: 72,723lb-ft (98.6 kN.m) (SAE)
- Travel reduction gear: 468hp (348 kW) / 2,100 rpm (Without fan)
- Travel speed: 3.2 / 1.9 mph (5.2 / 3.1 km/h)
- Parking brakes: 50 each side

#### Fuel
- Fuel type: Diesel
- Fuel consumption: 108.3U.S.gal {410L} hydraulic system

#### Bucket Selection Chart

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<th>Capacity (SAE)</th>
<th>Width Inches (m)</th>
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#### Standard Equipment
- Auto warm-up system
- Air-cooled type
- Intercooler layout
- Bucket down以防 Bucket guard
- Bucket guard
- Headrest
- ROPS cab
- Hollywood seat
- Waterproof seat
- Low-profile seat
- Light ergonomic seat
- Extra-long lumbar support seat
- Auto warm-up system
- Bucket guard
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- Extra-long lumbar support seat
- Water-cooled, 400hp Cylinder direct injection type diesel engine with intercooler turbo-charger(compatible with EU/NNRMM) Stage IV, EPA Tier IV Final

#### Optional Equipment
- Wide range of hoses
- Drive automatic control
- Engine oil filter
- Auto warm-up system
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#### Engine Specifications
- Displacement: 468.9 cu.in (7.68 L)
- Torque: 750 ft-lb (1017 Nm)
- RPM: 2,100 rpm (Without fan)

#### Control
- Two hand levers for excavating and swing
- Electric rotary-type engine throttle

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