## STANDARD EQUIPMENT

<table>
<thead>
<tr>
<th>ENGINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Engine, SAA6D140E-5, diesel engine with turbocharger and intercooler</td>
</tr>
<tr>
<td>• Automatic engine deceleration</td>
</tr>
<tr>
<td>• Auto idle stop (AIS)</td>
</tr>
<tr>
<td>• Batteries (2x12V - 160Ah)</td>
</tr>
<tr>
<td>• Starting motor (24V - 11kW), 60 amp alternator</td>
</tr>
<tr>
<td>• Removable clean-out screen for radiator</td>
</tr>
<tr>
<td>• Automatic engine shut-off for low engine oil pressure</td>
</tr>
<tr>
<td>• Engine oil drain valve</td>
</tr>
<tr>
<td>• Double element air cleaner</td>
</tr>
<tr>
<td>• Pre-air cleaner</td>
</tr>
<tr>
<td>• Fuel pre-filter</td>
</tr>
<tr>
<td>• Corpsion register</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Working mode selector (H-mode and S-mode)</td>
</tr>
<tr>
<td>• Swing system &amp; travel system</td>
</tr>
<tr>
<td>• Automatic swing brake</td>
</tr>
<tr>
<td>• Automatic swing brake</td>
</tr>
<tr>
<td>• Arm regeneration system</td>
</tr>
<tr>
<td>• Auto warm up system</td>
</tr>
<tr>
<td>• Aluminium hydraulic oil cooler</td>
</tr>
<tr>
<td>• Drain filter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MIRRORS &amp; LIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Three rearview mirrors</td>
</tr>
<tr>
<td>• Six front working lights</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAB &amp; CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Two control levers, pilot-operated</td>
</tr>
<tr>
<td>• Tow eyes</td>
</tr>
<tr>
<td>• Horn, electric</td>
</tr>
<tr>
<td>• Ashtray</td>
</tr>
<tr>
<td>• Cigarette lighter</td>
</tr>
<tr>
<td>• Cab light (interior)</td>
</tr>
<tr>
<td>• Coat hook</td>
</tr>
<tr>
<td>• Luggage tray</td>
</tr>
<tr>
<td>• Large cup holder</td>
</tr>
<tr>
<td>• Detachable two-piece floor mat</td>
</tr>
<tr>
<td>• Double slide seat</td>
</tr>
<tr>
<td>• 7-way adjustable suspension seat</td>
</tr>
<tr>
<td>• Removable seatback</td>
</tr>
<tr>
<td>• Headrest</td>
</tr>
<tr>
<td>• Handsrakes</td>
</tr>
<tr>
<td>• Intermittent windshield wiper with double-spray washer</td>
</tr>
<tr>
<td>• Sunshade</td>
</tr>
<tr>
<td>• Skylight</td>
</tr>
<tr>
<td>• Tinted safety glass</td>
</tr>
<tr>
<td>• Pull-type front window and removable lower front window</td>
</tr>
<tr>
<td>• Easy-to-read multi-display monitor</td>
</tr>
<tr>
<td>• Automatic air conditioner</td>
</tr>
<tr>
<td>• Emergency escape hammer</td>
</tr>
<tr>
<td>• Rear view camera</td>
</tr>
<tr>
<td>• Cab guard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HYDRAULIC</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>• Drain filter</td>
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<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 4.3 HD bucket</td>
</tr>
<tr>
<td>• 750 mm shoe</td>
</tr>
<tr>
<td>• Full track guide</td>
</tr>
</tbody>
</table>

### OPTIONAL EQUIPMENT

- 3.5 - 5.1 m³ ISO heaped
- 80,500 kg – 81,700 kg
- 370 kW {503 PS}/1,800 min

**Excavator Remote Monitoring System**

Remote Monitoring System 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.

- **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, traveling, and optional operations (N&B).

**Maintenance Data and Warning Alerts**

- **Machine Maintenance Data**
  - Provides maintenance status of separate machines operating at multiple sites.
  - Maintenance data also relayed to KOBELCO service personnel, for more efficient planning of periodic servicing.
- **Security System**
  - **Location Data**
  - **Fuel Consumption Data**
  - **Operating Hours**
  - **Graph of Work Content**
  - **Engine Start Alarm**
  - **Security System**
  - **Security System**
  - **Security System**
  - **Security System**
  - **Security System**
  - **Security System**

**Note:** Remote monitoring system is not applicable in some area due to country regulation of the communication lines or availability of infrastructure.

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https://www.kobelcocm-global.com

Bulletin No. SK850LC-ME-101-1711001EE-ON
The Concept of Beautiful Performance.

The Power Wave of Change

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, an entirely new kind of 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.

Enhancement
Greater Performance Capacity
- New hydraulic circuitry minimizes pressure loss
- High-efficiency, electronically controlled
- Common Rail Fuel Injection Engine
- Powerful travel and arm/bucket digging force

Economy
Improved Cost Efficiency
- Advanced power plant that reduces fuel consumption
- Easy maintenance that reduces upkeep costs
- High structural durability and reliability that retain machine value longer

Environment
Features That Go Easy on the Earth
- Auto Idle Stop as standard equipment
- Noise reduction measures
  (with improvement of the sound quality)
  minimize noise and vibration
Great Productivity and Low Fuel Costs
Advanced hydraulic technology keeps fuel costs low; matches pump output with a high efficiency engine that conserves fuel, resulting in great productivity and low fuel costs.

High Swing Torque
The use of high swing torque delivers a smoother, stronger and swing for faster, more efficient cycle times. It also provides plenty of start-up swing power for safe operation on slopes.

Swing torque: **268 kN-m**
Swing speed: **8.4 min⁻¹**

Plenty ofDigging Force
Digging is smoother than ever with the newly shaped bucket.

Max. bucket digging force: **432 kN (44.1 tf)**
Max. arm crowding force: **351 kN (35.8 tf)**

**Efficient Performance!**

Strongest Travel Power and Drawbar Pulling Force in its Class!
The large-capacity motor delivers the strongest travel power and drawbar pulling force in the machine’s class, making it ideal for large civil engineering projects, rock-crushing work, and other power-intensive applications.

Travel speed: **4.2/2.7 km/h**
Drawbar pulling force: **637 kN (65.0 tf)**

Excellent Lateral Stability
The SK850LC has the widest crawlers in its class for outstanding lateral stability. Fitted with a 5.1 m³ bucket, it can safely lift a maximum of 9.25 tons over the side, the most in its class.

(Condition: rating over side, 10.5 m reach at G. L., 750 mm shoe)

Max. bucket digging force: **432 kN (44.1 tf)**
Max. arm crowding force: **351 kN (35.8 tf)**

Extended Continuous Operation
(Large-Capacity Fuel Tank)
The large-capacity fuel tank, combined with higher fuel efficiency, enables the SK850LC to operate continuously for twelve hours.

Rigorous inspections for pressure loss are performed on all components of the hydraulic piping, from the first 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.

**Fuel tank:** **960L**

New Cooling System
The cooling fan changes speed automatically according to the temperature of the cool-ing water in the radiator. This prevents overheating when the water temperature rises, allowing continuous, high-load operation. When the water temperature falls, the cooling system operates very quietly, contributing to both low noise and low fuel consumption.

Light-Touch Levers
The operating levers are light and easy to move, reducing operator fatigue over long hours of operation.

Seamless, Smooth Combined Operations
The GEOSPAC 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 grace-and ease.

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.

NEXT-3E Technology
New Hydraulic System
The double row also enables faster arm retraction for better productivity.

1. **NEXT-3E Technology**
   - New Hydraulic System
   - Rigorous inspections for pressure loss are performed on all components of the hydraulic piping, from the first 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.

2. **NEXT-3E Technology**
   - Next-Generation Electronic Engine Control
   - The high-pressure, common-rail fuel-injection engine features adjustable control to maximize fuel efficiency and provide powerful medium/low-speed torque. The result is a highly fuel-efficient engine.

3. **NEXT-3E Technology**
   - Total Tuning Through Advanced ITCS Control
   - The next-generation engine control is governed by a new version of 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!

Large excavators are often used on steep, rough roads in mountains and quarries where they are expected to operate continuously for many hours at a time. They have to be durable. The high-strength construction of the SK850LC has already been proven through use in large KOBELCO building demolition machines, and has been carefully scrutinized through 30,000 hours of additional durability testing. It has the tough durability required in all of its components, including the upper and lower body and attachment.

Stable Attachment Strength

All components are either cast or forged, with HD type boom and arm provided as standard equipment. The balanced design ensures excellent durability even when using a large bucket, providing highly reliable attachment strength.

Upper Frame with High Structural Strength

FEM* analysis was used determine the best materials, select the steel plate, and create a high-strength design to resulting in an upper frame that features high structural strength.

*FEM (Finite Element Method) Method of numerical analysis used in structural mechanics

Strong Carbody Structure

Strength is especially crucial in the carbody. The swing mechanism on the SK850LC is mounted without a column, thereby increasing the carbody’s cross-section size for greater strength.

Large Components Used in the Crawler Frame

- Reinforced Travel Reduction Gear Cover A high-strength protective cover enhances the durability of the travel reduction gear.
- Track Guides Installed in Three Places Track guides installed in three different places improve travel stability and help prevent the crawlers from coming off the rollers. Full track guide can be installed as an option.

Emergency Acceleration (Dial) Permits Continued Operation in the Unlikely Event of Malfunction

If the mechatronic system should happen to malfunction, the ECU will automatically put the engine into high idle (maximum RPM), allowing the operator to continue working until a service specialist can come to repair the machine. During emergency operation, the hydraulic pumps automatically sense any trouble and control hydraulic flow accordingly.

Countermeasures Against Electrical System Failure

All elements of the electrical system, including controller, have been designed for enhanced reliability.

Excellent Transportability

Counterweight Device

The counterweight device operates both vertically and horizontally for safe and efficient onsite assembly and disassembly.

Four Disassembly and Transport Patterns

The SK850LC can be disassembled and transported in four different ways, including: no counterweight, with boom attached; main body only; main body without crawler frame; etc.

Retractable Track gauge

The variable gauge crawler extends the crawlers to a maximum width of 4,200 mm (with 650 mm shoes) for extremely stable operation, and retracts them to a compact minimum width of 3,400 mm for easier transport.

Full Track Guide (Optional)

Full track guide can be installed as an option.

The Value and Quality of Sturdy Construction!

Reliability, Durability
Easy Maintenance That Supports Large-Scale Operation!

Daily maintenance checks are essential for the successful operation of large, continuously operating excavators. Inspections and maintenance must be quick and easy to maximize productivity. With its maintenance walk, the SK850LC provides easy access to essential components and systems so that more time is spent on the job.

Maintenance Walk Serves as an Air Duct During Operation
Kobelco’s unique design covers the maintenance walk to create an air duct that helps to keep the radiator cool during machine operation.

Easy Inspection of Swing Bearing, Gear and Bolt
A small access port is located in front of the upper frame to make it easier to inspect the swing bearing, gear and bolt.

High-Grade Fuel Filter with Superior Filtration Performance
The high-performance, large capacity filter is designed specially for the common-rail fuel injection engine.

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.

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.
Comfort and Safety

Designed from the Operator’s Point of View

Plenty of Foot Room

Comfortable 1,005 mm-Wide Cab.

Creating a Comfortable Operating Environment

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 Field of View
- Along wiper covers a wide area for a broad view in bad weather.
- Backmirrors provide a safe view of the rear.
- Reinforced green glass windows meet European standards.

Wide-Access Cab Ensures Smooth Entry and Exit

- Seat can be reclined to horizontal position
- Double slide and suspension seat
- Powerful automatic air conditioner
- Spacious luggage tray

Reduced 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.

Designed for the Environment and the Future!

Auto Idle Stop Provided as Standard Equipment

This function saves fuel and cuts emissions by shutting down the engine automatically when the machine is on standby. It also stops the hourmeter, which helps to retain the machine’s asset value.

Automatic Acceleration/Deceleration Function Reduces Engine Speed

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.

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, it meets all requirements cited in EU stage II.

Meets EMC (Electromagnetic Compatibility) Standards in Europe.

- Thermal guard prevents contact with hot components during engine inspections
- Retractable seatbelt requires no manual adjustment
- Hammer for emergency exit

Imagining Possible Scenarios and Preparing in Advance

Safety Features That Take Various Scenarios into Consideration

Top Guard

Level 2 FOPS Guard (ISO 10262) is fitted as standard.

Rear View Camera

A rear view camera is installed as standard to simplify checking for safety behind the machine. The picture appears on the color monitor.

- Thermal guard prevents contact with hot components during engine inspections
- Retractable seatbelt requires no manual adjustment
- Hammer for emergency exit

Low Noise Level and Mild Sound Quality

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- Hammer for emergency exit

Photos: Specifications may vary in your areas.
### Specifications

#### Engine
- **Model**: KOMATSU SAA6D102E-6
- **Type**: Direct injection, water-cooled, 4-cylinder, electronically-controlled common rail system, turbocharged, intercooler
- **No. of cylinders**: 6
- **Bore and stroke**: 140 mm x 166 mm
- **Displacement**: 15.24 L
- **Rated power output**: 1,800 kW (2,436 PS) SAE Net at 1,800 rpm (ISO1436:2002)

#### Boom, Arm & Bucket
- **Boom cylinders**: 210 mm x 1,800 mm
- **Arm cylinder**: 220 mm x 2,175 mm
- **Bucket cylinder**: 300 mm x 3,570 mm

<table>
<thead>
<tr>
<th>Bucket Capacity</th>
<th>ISO heaped m³</th>
<th>5.1</th>
<th>4.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight m³ Bucket</td>
<td>5,090 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight 4.3 m Bucket</td>
<td>4,060 kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Batteries
- **5.04 m³/140 V**

#### Hydraulic System
- **Type**: Two variable displacement pumps + 1 gear pump
- **Max. discharge flow**: 2 x 504 L/min, 1 x 310 L/min
- **Boom, arm and bucket**: 33.0 MPa (337 kgf/cm²)
- **Travel circuit**: 33.0 MPa (337 kgf/cm²)
- **Swing circuit**: 30.0 MPa (306 kgf/cm²)
- **Control circuit**: 5.5 MPa (54 kgf/cm²)
- **Pilot control pump**: Gear type
- **Main control valves**: 8-pos
- **Oil cooler**: Air cooled type

#### Refilling Capacities & Lubrications
- **Fuel tank**: 980 L
- **Cooling system**: 76 L
- **Engine oil**: 58 L
- **Travel reduction gear**: 2 x 220 L
- **Swing reduction gear**: 2 x 215 L
- **Hydraulic oil tank**: 473 L (tank oil level: 851 L hydraulic system)

#### Dimensions
- **Application**: Mass Excavator
- **Mass Excavator Application**: With 7.25 m short boom, 2.9 m short arm, and 5.1 m³ bucket

<table>
<thead>
<tr>
<th>Application</th>
<th>Mass Excavator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>13.500</td>
</tr>
<tr>
<td>Overall height (to top of boom)</td>
<td>4.800</td>
</tr>
<tr>
<td>Overall width with 650 mm shoe</td>
<td>4.300</td>
</tr>
<tr>
<td>Overall width with 750 mm shoe</td>
<td>3.500</td>
</tr>
<tr>
<td>Overall width reduced</td>
<td>3.200</td>
</tr>
<tr>
<td>Overall width</td>
<td>3.400</td>
</tr>
<tr>
<td>Ground clearance of rear end*</td>
<td>1.560</td>
</tr>
<tr>
<td>Ground clearance*</td>
<td>0.800</td>
</tr>
<tr>
<td>Tail swing radius</td>
<td>4.800</td>
</tr>
<tr>
<td>Tilt angle</td>
<td>5.140</td>
</tr>
<tr>
<td>Overall length of crawler</td>
<td>6.380</td>
</tr>
<tr>
<td>Track gauge with 650/750 mm shoe</td>
<td>2.750</td>
</tr>
<tr>
<td>Overall width of upperstructure</td>
<td>3.500</td>
</tr>
<tr>
<td>Overall length of upperstructure</td>
<td>3.980</td>
</tr>
<tr>
<td>Operating weight with full truck guide</td>
<td>88,750</td>
</tr>
<tr>
<td>Operating weight with full truck guide</td>
<td>3,500</td>
</tr>
<tr>
<td>Operating weight</td>
<td>3,700</td>
</tr>
<tr>
<td>Ground pressure with full truck guide</td>
<td>1,560</td>
</tr>
</tbody>
</table>

#### Boom, Arm & Bucket
- **7.25 m Short Boom**: Weight: 10,040 kg
- **2.9 m Short Arm**: Weight: 4,130 kg
- **5.1 m³**: Weight: 5,090 kg

#### Travel System
- **Travel motors**: 2 x axial-piston motor, two-step motors
- **Travel brakes**: Hydraulic disc brake
- **Parking brakes**: Oil disc brake per motor
- **Travel shoes**: 5/1 each side
- **Travel speed**: 4.2/0.7 km/h
- **Displacement**: 33.0 MPa (337 kgf/cm²)
- **Max. torque**: 2,000 N·m
- **Rated power output**: 370 kW (503 PS) SAE Net at 1,350 rpm

#### Swing System
- **Swing motor**: Axial-piston motor
- **Brake**: Hydraulic, locking automatically when the swing control lever is in the neutral position
- **Parking**: Hydraulic disc brake
- **Swing speed**: 8.4 mm/rpm
- **Swing torque**: 268 kN·m

#### Working Ranges
- **Application**: Mass Excavator
- **Mass Excavator Application**: (With 7.25 m short boom, 2.9 m short arm, and 5.1 m³ bucket)

<table>
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<td>Ground clearance*</td>
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</tr>
<tr>
<td>Tail swing radius</td>
<td>4.800</td>
</tr>
<tr>
<td>Tilt angle</td>
<td>5.140</td>
</tr>
<tr>
<td>Overall length of crawler</td>
<td>6.380</td>
</tr>
<tr>
<td>Track gauge with 650/750 mm shoe</td>
<td>2.750</td>
</tr>
<tr>
<td>Overall width of upperstructure</td>
<td>3.500</td>
</tr>
<tr>
<td>Overall length of upperstructure</td>
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<tr>
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<td>Operating weight</td>
<td>3,700</td>
</tr>
<tr>
<td>Ground pressure with full truck guide</td>
<td>1,560</td>
</tr>
</tbody>
</table>

#### Operating Weight & Ground Pressure
- **Shoe width**: 650 mm
- **Overall width of upperstructure**: 660 mm
- **Overall length of upperstructure**: 4,480 mm
- **Tilt angle**: 5.140
- **Overall width of upperstructure**: 6.380

#### Digging Force (ISO 6015)
- **Bucket digging force**: 432 kN
- **Arm crowning force**: 351 kN

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**Note**: *Without including height of shoe bag.*

---

**Image**: Mass Excavator (Short Boom / 7.25 m + Short Arm / 2.9 m)
### Lifting Capacities

**Mass Excavator Application**

<table>
<thead>
<tr>
<th>Bucket hook height above/below ground (m)</th>
<th>B</th>
<th>C</th>
<th>Lifting capacities in kilograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1.5</td>
<td>-6.0</td>
<td>1.5</td>
<td>10.0</td>
</tr>
</tbody>
</table>

### Transportation Plan

<table>
<thead>
<tr>
<th>Description</th>
<th>Total weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan 1</td>
<td>60,250 kg</td>
</tr>
<tr>
<td>Plan 2</td>
<td>56,020 kg</td>
</tr>
<tr>
<td>Plan 3</td>
<td>45,980 kg</td>
</tr>
<tr>
<td>Plan 4</td>
<td>21,040 kg</td>
</tr>
</tbody>
</table>

*Counterweight: 13,400 kg

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1. Do not attempt to lift or hold any load that is greater than the lift capacities at their specified lift point radius and height. 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. Upper rear tires 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. Bucket lift hook defined as lift point.

4. The above lifting capacities are in compliance with ISO 10507. 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. 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. Lifting capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.