### STANDARD EQUIPMENT
- **ENGINE**
  - Engine, SAA6D14DE-5, diesel engine with turbocharger and intercooler
  - Auto Idling Stop (AIS)
  - Batteries (2x12V - 190Ah)
  - Starting motor (24V - 11kW), 60 amp alternator
  - Removable clean-out screen for radiator
  - Automatic engine shut-off for low engine oil pressure
  - Engine oil pan drain valve
  - Double element air cleaner x 2
  - Fuel filters
  - Fuel pre-filter
  - Engine oil filter
  - Corrosion register
  - Radiator reserve tank
- **CONTROL**
  - Working mode selector (H-mode, S-mode, B-mode and A-mode)
  - Power Boost
- **SWING SYSTEM & TRAVEL SYSTEM**
  - Swing rebound prevention system
  - Straight propel system
  - Two-speed travel with automatic shift down
  - Sealed & lubricated track links
  - Grease-type track adjusters
  - Automatic swing brake
- **HYDRAULIC**
  - Arm regeneration system
  - Hydraulics filter
  - Drain filter
- **MIRRORS & LIGHTS**
  - Two rearview mirrors
  - Four 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
- Ashtray
- Cigarette lighter
- Cab light (interior)
- Coat hook
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- 7-way adjustable suspension seat
- Retractable seatbelt
- Headrest
- Handrails
- Heater and defroster
- Insufficient windshield wiper with double-spray washer
- Sunshade
- 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
- Radio, AM/FM Stereo with speakers
- Travel alarm (optional for NZ)

### OPTIONAL EQUIPMENT
- Wide range of buckets
- Various optional arms
- Wide range of shoes
- Boom safety valve
- Front-guard protective structures
- Additional hydraulic circuit

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

---

### Acera Geospec SK850LC

**Hydraulic Excavators**

**SK 850 LC**

- Bucket Capacity: 2.8 – 5.4 m³ ISO heaped
- Engine Power: 370 kW (503 PS) / 1,800 min⁻¹ (rpm)
  - (EU/EMAP III, Stage IIIA)
- Operating Weight: 78,200 kg – 80,500 kg

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:

That's KOBELCO! Your First Choice

Complies with the latest exhaust emission regulations

US EPA Tier III
EU EMAP III
Latest Japanese Regulations

Bulletin No. ACERA GEOSPEC SK850LC-ANZ-01
2009102000 Printed in Japan
Announcing ACERA GEOSPEC and The Concept of Beautiful Performance

When we set out to design our new ACERA GEOSPEC hydraulic excavators, we kept our eyes on the big picture. Of course, we wanted machines that would sell well, but we didn’t want to emphasize one aspect of performance at the expense of other features. So, instead of narrowly focusing on fuel-efficient, economical operation, for example, or on environmental compatibility, or on any other particular feature, we sought to develop well-rounded machines that can balance seemingly contradictory demands.

Now, we’re proud to introduce the latest member of the ACERA GEOSPEC family—the 80-ton SK850LC. This machine has it all: the highest productivity in its class; a resilient power plant; outstanding durability proven in the field in large building demolition machines; easy transportability; and an environmentally responsible design that reduces fuel consumption and operating costs. In short, the SK850LC satisfies all of the tough conditions that must be met by a large excavator engaged in demanding, continuous operations. So welcome to the birth of a new standard of performance: the 80-ton ACERA GEOSPEC SK850LC. With its efficient, sleek design, it brings a whole new excavating style to the worksite that’s tuned to the natural beauty of our world.
The GEOSPPEC Difference:
Efficient Performance!

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.

New Cooling System
The cooling fan changes speed automatically according to the temperature of the cooling 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 GEOSPPEC machines have inherited the various systems that make inclining 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.

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 faster swing for faster, more efficient cycle times. It also provides plenty of start-up swing power for safe operation on slopes.

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

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 5.4 m² bucket, it can safely lift a maximum of 9.92 tons over the side, the most in its class. (Condition: rating over side, 10.7 m reach at G. L., 900 mm shoe)

Max. bucket digging force: 403 kN (41.1 tf)
Max. arm crowding force: 311 kN (31.7 tf)

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Max. bucket digging force: 403 kN (41.1 tf)
Max. arm crowding force: 311 kN (31.7 tf)

Extended Continuous Operation
Fuel tank: 960L

New Cooling System
The cooling fan changes speed automatically according to the temperature of the cooling 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.

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The GEOSPEC Difference:

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 resulting in an upper frame that features high structural strength.

**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. More track guides 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.

**Variable Gauge Crawler**

The variable gauge crawler extends the crawlers to a maximum width of 4,300 mm (with 760 mm shoes) for extremely stable operation, and retracts them to a compact minimum width of 3,500 mm for easier transport.

The GEOSPEC Difference:

The Value and Quality of Sturdy Construction!
The GEOSPEC Difference:

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.

More Efficient Maintenance Inside the Cab

- 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.

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.

Auto-Coil Grease Gun Holder

- Grease tank
- Lubrication hose
- Fuel tank drain valve

Bolted Double Service Doors Open and Close Easily

- Intercooler  • A/C condenser  • Fuel cooler  • Radiator  • Oil cooler

Around the engine compartment

- Fuel filter
- Fuel pre-filter with water separator
- Engine oil drain valve
- Engine oil filter
- Cat walk

Simple Filtration

- Hydraulic oil filter x 3
- Suction filter

High-performance, large capacity filter is designed specially for the common-rail fuel injection engine.

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Monitor Display with Essential Information for Accurate Maintenance Checks

- Super-fine filter
- Long-life hydraulic oil filter: 1,000 hours
Comfort and Safety

The GEOSPEC Difference: Designed from the Operator’s Point of View

Plenty of Foot Room
Comfortable 1,005 mm-Wide Cab.

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.

- Double slide and suspension seat
- Powerful automatic airconditioner
- Spacious luggage tray
- Two-speaker FM radio with station select (Optional)
- New interior design and materials create an elegant feel

Wide-Access Cab Ensures Smooth Entry and Exit

The left control box lifts up with the safety lock lever to add 10° to the cab entry angle for easy entrance and exit.

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.

Creating a Comfortable Operating Environment

- Seat can be reclined to horizontal position
- Large cup holder
- One-touch lock release simplifies opening and closing the front window

Meets Standard Values Set by Emissions Regulations

The engine used in the GEOSPEC machines represents the crystallization of various cutting-edge technologies that minimize the emission of PM (Particulate Matter), NOx, black smoke, and other emissions, thus meeting all internationally recognized environmental regulations, including US EPA Tier III, NRMM (Europe) Stage IIIA, and act on regulation, etc. of emission from non-road special motor vehicles (Japan).

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, the GEOSPEC series meets all requirements cited in latest EU stage II.

Meets EMC (Electromagnetic Compatibility) Standards in Europe.

Measures have been taken to ensure that the GEOSPEC machines do not cause electromagnetic interference. (Australia)

Safety Features That Take Various Scenarios into Consideration

- Swing flashers/rear working lights
- Thermal guard prevents contact with hot components during engine inspections
- Hand rails meet European standards
- Retractable seatbelt requires no manual adjustment

Engine Speed
Lever On
Lever Stroke

Lever Off (Neutral)

Photo shows previous model.

Comfort and Safety
Engine
Model: KOMATSU SAA6D14DE-5
Type: Direct injection, water-cooled, 4-cycle, electrically-controlled common rail system type diesel engine with turbocharger, intercooler (Complies with EU (NRMM) Stage IIIA, US EPA Tier III, and Act on Regulation, Etc. of Emissions from Non-road Special Motor Vehicles (Japan))
No. of cylinders: 6
Bore and stroke: 140 mm X 165 mm
Displacement: 15.24 L
Rated power output: 370 kW (503 PS) ISO NET at 1,800 min-1 (ISO14396: 2002)
Max. torque: 2,197 N•m at 1,350 min-1
Starter: 24 V, 11 kW
Alternator: 60 AMP
Batteries: 2 – 12 V – 190Ah

Hydraulic System
Pump
Type: Two variable displacement pumps + 1 gear pump
Max. discharge flow: 2 X 504 L/min, 1 X 30 L/min
Relief valve setting
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: 5.0 MPa (50 kgf/cm²)
Pilot control pump: Gear type
Main control valves: 6-spool
Oil cooler: Air cooled type

Boom, Arm & Bucket
Boom cylinders: 210 mm X 1,800 mm
Arm cylinder: 220 mm X 2,175 mm
Bucket cylinder: 200 mm X 1,570 mm

Refilling Capacities & Lubrications
Fuel tank: 960 L
Cooling system: 76 L
Engine oil: 58 L
Travel reduction gear: 2 X 22 L
Swing reduction gear: 2 X 21.5 L
Hydraulic oil tank: 473 L

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: 51 each side
Travel speed: 4.2/2.7 km/h
Graveler oiling force: 637 N (65.0 kgf) (JT309)
Gradeability: 70 % (35°)
Ground clearance: 850 mm

Cab & Control
All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts and equipped with a heavy, insulated floor mat. Electric rotary-type engine throttle

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 min-1
Swing torque: 288 KNm
Tail swing radius: 4,600 mm
Min. front swing radius: 2,340 mm

Specifications
Table:

Boom, Arm and Bucket Combination

<table>
<thead>
<tr>
<th>Use</th>
<th>Backhoe bucket 1</th>
<th>Backhoe bucket 2</th>
<th>Backhoe bucket 3</th>
<th>Backhoe bucket 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity</td>
<td>IS0 heaped (m³)</td>
<td>Wink (m³)</td>
<td>IS0 heaped (m³)</td>
<td>Wink (m³)</td>
</tr>
<tr>
<td>2.8</td>
<td>2.1</td>
<td>3.0</td>
<td>3.1</td>
<td></td>
</tr>
<tr>
<td>3.6</td>
<td>2.0</td>
<td>4.6</td>
<td>4.7</td>
<td></td>
</tr>
<tr>
<td>Opening width</td>
<td>With side cutter (mm)</td>
<td>Without side cutter (mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.680</td>
<td>1.580</td>
<td>2.000</td>
<td>1.960</td>
<td></td>
</tr>
<tr>
<td>2.500</td>
<td>2.460</td>
<td>2.500</td>
<td>2.460</td>
<td></td>
</tr>
<tr>
<td>No. of bucket teeth</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>2.380</td>
<td>2.610</td>
<td>3.160</td>
</tr>
<tr>
<td>3.570</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combos</td>
<td>2.9 m short arm</td>
<td>3.6 m standard arm</td>
<td>4.4 m long arm</td>
<td>2.9 m short arm + 7.25 m short boom</td>
</tr>
<tr>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>
### Specifications

#### Dimensions

<table>
<thead>
<tr>
<th>Application</th>
<th>Short Arm</th>
<th>Standard Arm</th>
<th>Long Arm</th>
<th>Mass Excavator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm length</td>
<td>2.9 m</td>
<td>3.6 m</td>
<td>4.4 m</td>
<td>5.4 m</td>
</tr>
<tr>
<td><strong>Boom length</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Overall length</td>
<td>14,600</td>
<td>14,530</td>
<td>14,480</td>
<td>13,590</td>
</tr>
<tr>
<td>B Overall height (to top of boom)</td>
<td>4,440</td>
<td>4,760</td>
<td>5,160</td>
<td>4,930</td>
</tr>
<tr>
<td>C Overall width with 750 mm shoe (Extended)</td>
<td>6,990</td>
<td>7,050</td>
<td>7,150</td>
<td></td>
</tr>
<tr>
<td>with 750 mm shoe (Retracted)</td>
<td>3,950</td>
<td>4,300</td>
<td>4,700</td>
<td></td>
</tr>
<tr>
<td>with 900 mm shoe (Extended)</td>
<td>6,990</td>
<td>7,050</td>
<td>7,150</td>
<td></td>
</tr>
<tr>
<td>with 900 mm shoe (Retracted)</td>
<td>3,950</td>
<td>4,300</td>
<td>4,700</td>
<td></td>
</tr>
<tr>
<td>D Overall height (to top of cab)</td>
<td>3,500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Ground clearance of rear end*</td>
<td>1,560</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F Ground clearance*</td>
<td>950</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F' Ground clearance*</td>
<td>580</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G Tail swing radius</td>
<td>4,950</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G' Distance from center of swing to rear end</td>
<td>4,480</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Tumbler distance</td>
<td>5,140</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I Overall length of crawler</td>
<td>3,700</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J Track gauge with 750 mm shoe (Extended)</td>
<td>107,115</td>
<td>107,115</td>
<td>107,115</td>
<td></td>
</tr>
<tr>
<td>with 750 mm shoe (Retracted)</td>
<td>3,500</td>
<td>3,500</td>
<td>3,500</td>
<td></td>
</tr>
<tr>
<td>with 900 mm shoe (Extended)</td>
<td>107,115</td>
<td>107,115</td>
<td>107,115</td>
<td></td>
</tr>
<tr>
<td>with 900 mm shoe (Retracted)</td>
<td>3,500</td>
<td>3,500</td>
<td>3,500</td>
<td></td>
</tr>
<tr>
<td>K Shoe width</td>
<td>650/750/900</td>
<td>650/750/900</td>
<td>650/750/900</td>
<td>650/750/900</td>
</tr>
<tr>
<td>L Overall width of upperstructure</td>
<td>3,350</td>
<td>3,350</td>
<td>3,350</td>
<td></td>
</tr>
<tr>
<td>M Overall length of upperstructure</td>
<td>6,170</td>
<td>6,170</td>
<td>6,170</td>
<td></td>
</tr>
</tbody>
</table>

*Without including height of shoe lug.

#### Operating Weight & Ground Pressure

**Short Arm Application** (In standard trim, with 8.25 m standard boom, 2.9 m short arm, and 4.6 m³ bucket)

<table>
<thead>
<tr>
<th>Shoe width mm</th>
<th>Triple grouser shoe (even height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>700</td>
</tr>
<tr>
<td>700</td>
<td>500</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>KPa (kgf/cm²)</td>
</tr>
<tr>
<td>4,440</td>
<td>4,440</td>
</tr>
<tr>
<td>4,440</td>
<td>4,440</td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
</tr>
<tr>
<td>78,700</td>
<td>79,300</td>
</tr>
<tr>
<td>79,300</td>
<td>80,500</td>
</tr>
</tbody>
</table>

**Standard Arm Application** (In standard trim, with 8.25 m standard boom, 3.6 m standard arm, and 3.5 m³ bucket)

<table>
<thead>
<tr>
<th>Shoe width mm</th>
<th>Triple grouser shoe (even height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>700</td>
</tr>
<tr>
<td>700</td>
<td>500</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>KPa (kgf/cm²)</td>
</tr>
<tr>
<td>4,440</td>
<td>4,440</td>
</tr>
<tr>
<td>4,440</td>
<td>4,440</td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
</tr>
<tr>
<td>78,200</td>
<td>78,800</td>
</tr>
<tr>
<td>79,800</td>
<td>80,900</td>
</tr>
</tbody>
</table>

**Long Arm Application** (In standard trim, with 8.25 m standard boom, 4.4 m long arm, and 2.8 m³ bucket)

<table>
<thead>
<tr>
<th>Shoe width mm</th>
<th>Triple grouser shoe (even height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>700</td>
</tr>
<tr>
<td>700</td>
<td>500</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>KPa (kgf/cm²)</td>
</tr>
<tr>
<td>4,440</td>
<td>4,440</td>
</tr>
<tr>
<td>4,440</td>
<td>4,440</td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
</tr>
<tr>
<td>78,400</td>
<td>79,100</td>
</tr>
<tr>
<td>79,100</td>
<td>80,200</td>
</tr>
</tbody>
</table>

**Mass Excavator Arm Application** (In standard trim, with 7.25 m short boom, 2.9 m short arm, and 5.4 m³ bucket)

<table>
<thead>
<tr>
<th>Shoe width mm</th>
<th>Triple grouser shoe (even height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>700</td>
</tr>
<tr>
<td>700</td>
<td>500</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>KPa (kgf/cm²)</td>
</tr>
<tr>
<td>4,440</td>
<td>4,440</td>
</tr>
<tr>
<td>4,440</td>
<td>4,440</td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
</tr>
<tr>
<td>78,700</td>
<td>79,300</td>
</tr>
<tr>
<td>79,900</td>
<td>81,400</td>
</tr>
</tbody>
</table>

#### Transportation Plan

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
<th>Total weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan 1</td>
<td>Base machine without counterweight and bucket, with lower structure, 8.25 m standard boom and 3.6 m standard arm.</td>
<td>62,800 kg</td>
</tr>
<tr>
<td>Plan 2</td>
<td>Base machine without counterweight, bucket and arm, with lower structure and 8.25 m standard boom.</td>
<td>58,500 kg</td>
</tr>
<tr>
<td>Plan 3</td>
<td>Base machine with lower structure, without counterweight, bucket, arm and boom.</td>
<td>48,800 kg</td>
</tr>
<tr>
<td>Plan 4</td>
<td>Base machine with carbody, without counterweight, bucket, arm,boom and lower structure.</td>
<td>24,900 kg</td>
</tr>
</tbody>
</table>

*Counterweight: 13,400 kg
### Specifications

**Lifting Capacities**

**Working Ranges**

- **Unit**: m

**Digging Force (ISO 6015)**

- **Unit**: kN (kgf)

**Mass Excavator Application**

### 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 height. Weight of all accessories must be deducted from the specified lift capacities. Bucket radius of all loads must be less than the maximum specified lift radius and height. Do not lift loads that exceed the specified load rating.

2. Lifting 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. Bucket hook height 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. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.
### Lifting Capacities

**Mass Excavator Application**

<table>
<thead>
<tr>
<th>Radius</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>9.0 m</th>
<th>10.5 m</th>
<th>12.0 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg</td>
<td>3.0 kg</td>
<td>4.5 kg</td>
<td>6.0 kg</td>
<td>7.5 kg</td>
<td>9.0 kg</td>
<td>10.5 kg</td>
<td>12.0 kg</td>
</tr>
</tbody>
</table>

#### Short Arm Application

<table>
<thead>
<tr>
<th>Radius</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>9.0 m</th>
<th>10.5 m</th>
<th>12.0 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg</td>
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<td>6.0 kg</td>
<td>7.5 kg</td>
<td>9.0 kg</td>
<td>10.5 kg</td>
<td>12.0 kg</td>
</tr>
</tbody>
</table>

#### Long Arm Application

<table>
<thead>
<tr>
<th>Radius</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>9.0 m</th>
<th>10.5 m</th>
<th>12.0 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg</td>
<td>3.0 kg</td>
<td>4.5 kg</td>
<td>6.0 kg</td>
<td>7.5 kg</td>
<td>9.0 kg</td>
<td>10.5 kg</td>
<td>12.0 kg</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 height. Weight of all equipment 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, or 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 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. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.