



# HITACHI

## ZX690LC-6 | ZX890LC-6 | ZAXIS-6 series

Reliable solutions



ZX890LC-6

### SPEC SUMMARY

|                      | ZX690LC-6                     | ZX890LC-6                   |
|----------------------|-------------------------------|-----------------------------|
| Operating Weight     | 151,237 lb. (68,600 kg)       | 186,511 lb. (84,600 kg)     |
| Net Power (ISO 9249) | 462.7 hp (345 kW) @ 1,800 rpm | 512 hp (382 kW) @ 1,800 rpm |

**ZAXIS 690**  
**ZAXIS 890**

Hydraulic Excavator





# ENGINEERED FOR ULTIMATE CONTROL

Whether you look at performance, efficiency, or cab comfort, Hitachi Construction Machinery Americas latest range of excavators was designed around enhancing the operator experience and maximizing the fleet owner's bottom line.

We've looked closely at the day-to-day challenges you face as the owner of a successful business and have improved upon the comfort, efficiency and support we offer you over the life of your excavator.

By building the ZAXIS-6 series excavators around your needs, we have given you more control than ever of your fleet on whatever job site you are on.





ZX890LC-6

## CONTENTS



6. Safely under control



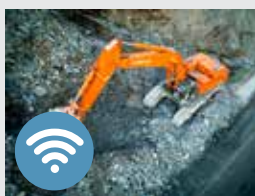
8. Boost your uptime



10. Performance and fine control



13. More comfort features



14. Durability comes standard



16. Reliability is the backbone of your business



18. Get more from your excavator



# CONTROL YOU CAN COUNT ON

The new ZAXIS-6 large-sized excavators with three working modes (ECO, Power, and High Power) puts you firmly in control, to have your machine perform how you need it to, when you need it to. Our excavators are backed by Hitachi Construction Machinery Americas technological expertise and our current 4-year, 4,000-hour STD warranty. We've got this, and you're in control.



Machine representative of global product.  
Options may not be available in all markets.



A large cab provides a more comfortable working environment.



The Aerial Angle® camera system and 7" LCD monitor takes visibility to a new level.



ConSite OIL sensors monitor oil quality proactively, easing your mind so that you can focus on the work that needs to be done.



The ConSite suite of apps track real-time performance metrics, making it easy for you to manage your machines' performance and productivity.



Improved access to components makes maintenance quick and easy.



The improved HIOS IIIB hydraulic system increases hydraulic efficiency while reducing fuel consumption at the same time.



The new powerful HP mode improves productivity and reduces cycle time.



# SAFELY UNDER CONTROL



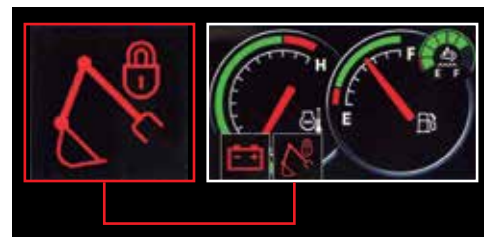
Safety is vital to everyone on the job site and for the successful completion of any project. The Hitachi Construction Machinery Americas ZAXIS-6 excavators give you a superior view of your surroundings.

The Aerial Angle® camera system allows an exceptional 270-degree bird's-eye view of the surroundings. Three views of the machine's immediate environment can be selected, allowing the operator to choose the view that best suits the situation.

ZAXIS-6 excavators come standard with an impressive array of LED work lights, lighting up your job site at night like never before.



LED working lights improve visibility in challenging conditions.



## Secure operation

Control-lever auto-lock helps prevent unintentional movement of the front, swing, travel, and attachment control functions. When the control-lever auto-lock is engaged, the icon will be illustrated on the monitor and an alarm will sound.

The ROPS cab is pressurized to help protect operators from dust and debris.





ZX890LC-6



Choose among different views to suit your jobsite and situation.

### **Aerial Angle® Camera comes standard**

The Aerial Angle® camera system offers exceptional visibility of the job site. With a push of the screen changeover button, an operator can choose to view a combination of all three cameras, providing a 270-degree view of the excavator; right and rearview camera view; or left, right, and rearview cameras separately depending on what view best fits the work environment and situation.

The excavator surrounding camera view is a composite of the images from the right, left, and rearview cameras, offering a 270-degree birds-eye view of the excavator's immediate environment.

**Aerial Angle®**



# BOOST YOUR UPTIME

## **Ease of maintenance**

The engine cover opens wide to reveal improved access to the engine compartment and components, making maintenance easier.

Conveniently located filters make daily inspections and maintenance easier.

## **Auto-Idle**

Auto-Idle reduces engine speed when the machine is not working for 4 seconds.

## **Auto-shutdown**

Shuts down your excavator if left running between 1 to 30 minutes depending on the setting set within the cab monitor.

**Grouped maintenance points with easy access.**



Machine representative of global product.  
Options may not be available in all markets.







Designed for durability and easy maintenance, ZAXIS-6 excavators increase uptime and reduce the total cost of ownership.

ZX890LC-6



# PERFORMANCE AND FINE CONTROL



Machine representative of global product.  
Options may not be available in all markets.



HIOS IIIIB: Employs a two pump system to enhance controllability and productivity

The boom and arm are more responsive due to direct oil flow to each actuator

The pumps are controlled electronically for improved efficiency and lower fuel consumption

The SCR system injects urea into exhaust gas (red) to reduce NOx from emissions





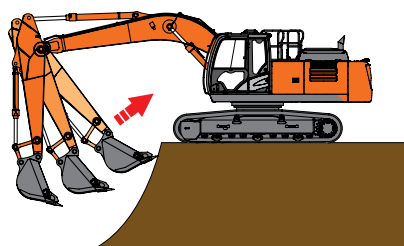
ZX890LC-6

### HIOS IIIB

The HIOS IIIB hydraulic system consists of two pumps and two control valves to reduce fuel consumption while enhancing controllability, productivity, and efficiency. (HIOS—Human & Intelligent Operation System)

The HIOS IIIB system increases the operational speed of the four following excavator operations:

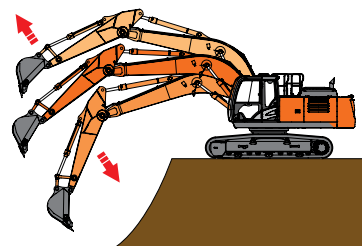
1. Bucket Roll-out
2. Arm Roll-out
3. Boom Lowering
4. House Swing



The operational speed is increased by increasing the pump flow as well as reducing pressure loss of the hydraulic circuit.

### Boost Efficiency

Shortened time to complete the swing plus boom raise operation by increased pump flow and improved swing torque.



### H/P (High Power) mode

H/P mode increases engine speed and pump output torque when additional speed and power are needed during operation.



### Power boost

Power boost enhances digging force up to 10%, improving excavating and lifting performance.







# MORE COMFORT FEATURES

**Enhanced comfort controls are at your fingertips in the refined cab of ZAXIS-6 excavators, giving you the power to perform with ease.**

## **User-friendly monitor**

A large 7-inch LCD monitor allows the operator to check machine status at a glance in up to 32 languages.

## **Improved visibility**

The optional front guard has been redesigned and improved, providing the operator with an even better view of the job site.

## **A comfortable seat**

A fully adjustable seat, spacious cab, ergonomic controls, and advanced music system all contribute to the ultimate working environment. The addition of an adjustable sun visor reduces glare on those days when the sun is low in the sky.

## **Advanced audio system**

The AM/FM radio is readily accessible from the monitor, and an auxiliary socket for devices such as MP3 players is linked to the sound system. This choice of entertainment helps to provide an enjoyable and productive working environment.

## **Ease of use**

A USB port in the cab enables operators to charge smartphones and tablets while they work for added convenience.

## **Cool, quiet cab**

Features have been added to the cab to make it quieter and to reduce dust ingress.



Comfortable cab space. ROPS certified CRESV cab.

- ① **Air conditioning and audio** are easily controlled via the monitor.
- ② **Low-reflective color 7" LCD monitor** is easy to view and navigate.
- ③ **USB power supply and smartphone holder** helps you stay connected.
- ④ **Drink holder** is easy to detach for cleaning.
- ⑤ **Additional joystick controls** for effortless operation.
- ⑥ **Ergonomic design** gives you convenient access to controls.
- ⑦ **Multifunctional control panel** makes operation easier.
- ⑧ **Improved sound isolation** makes this one of the quietest cabs on the market.
- ⑨ **User-friendly storage space** keeps your workspace tidy and clutter-free.
- ⑩ **Coat hooks** take care of your personal belongings.
- ⑪ **Optimal pedal layout** helps to reduce fatigue.



# DURABILITY COMES STANDARD



## Enhanced fuel circuit

A high-performance water separator and cold fuel resistance valve are integrated into the pre-filter for added protection against moisture. In addition, a large-capacity electric fuel pump supplies an appropriate amount of fuel to the engine for improved performance.

## Save fuel

Hydraulic loss is decreased by HIOS IIIB technology. It reduces the hydraulic oil returned to the tank due to the cooperative control of the pump and valve. This helps to lower fuel consumption by 5% in ECO mode with the same productivity.

## Engine protection

The combustion chamber is made from stronger materials, and the revised shape of the piston is designed to achieve cleaner emissions. These features will further enhance the reliability of the engine.





ZX890LC-6

## Reinforced Undercarriage

### New shape of the lower roller

The lower roller has been redesigned to further help prevent mud ingress.

- Long-term durability
- Three track guards come standard for a more durable undercarriage.

### Integrated Idler and Adjuster

The front idler and adjuster cylinder have been integrated in the new ZAXIS-6, improving their durability.

Due to this integration, the bracket that had supported the adjuster cylinder is no longer required, resulting in less mud buildup.

## Reinforced idler bracket with slanted side frame

The side frame of the idler bracket is slanted on both sides, which enlarges the cross-sectional area of the external surface of the idler bracket.

The design of the idler bracket has been improved to make it easier to remove mud.



Reinforced undercarriage and increased crossbeam size and strength increase durability.



# RELIABILITY IS THE BACKBONE OF YOUR BUSINESS

## **Easy maintenance**

The engine cover can be conveniently opened fully from the platform. This provides easy access to the engine compartment and other components for routine maintenance.

- Dust screen prevents plugging, providing increased reliability.



Quickly and easily select between multiple application modes.

## **Greater flexibility**

Thumb mode is included on the ZX690LC-6 and ZX8690LC-6. This and 10 other modes can be registered on the monitor for easy fitting of attachments to increase versatility.

## **Long-lasting visibility**

Eight standard LED lights enhance visibility for the operator, particularly at night. LED lights use less power, output more light, and last longer than halogen lights.

## **Reversing Fan**

A standard reversing fan reduces debris buildup and increases uptime.







Machine representative of global product.  
Options may not be available in all markets.

**ZX690LC-6**



# GET MORE FROM YOUR EXCAVATOR

## Lower emissions

The after-treatment device consists of a diesel oxidation catalyst (DOC), urea mixing pipe, SCR system, and silencer. This advanced technology helps to reduce emissions and noise levels.

## Engine aftertreatment device

Consisting of a DOC, a urea water mixing pipe, a SCR catalyst, and a silencer.

## Urea SCR system without DPF reduces NOx

Tier 4 Final is currently achieved by using a combination of urea SCR (Selective Catalytic Reduction) and DOC (Diesel Oxidation Catalyst). The DOC is basically maintenance-free. The amount of urea water is roughly 2% to 3% of the total fuel amount. Easy maintenance without a DPF.



Checking DEF fluid level through Multi-function monitor.



Easy-access DEF tank

## Reliable Isuzu engine

Isuzu engines provide the reliability of 5+ years on-site experience in the North American market.

## ConSite OIL

ConSite OIL monitors the oil condition to help ease your mind so that you can focus on the work at hand.

- The oil-monitoring sensor attached to the engine and hydraulic equipment monitors the oil status of each operating machine.

## Remote monitoring

Global e-Service allows for remote monitoring of your fleet, providing useful excavator data to enhance productivity and minimize downtime. Improve performance and maximize the efficiency of your excavator using the Global e-Service online management tool available 24/7 online.







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Machine representative of global product.  
Options may not be available in all markets.

ZX690LC-6



# ZX690LC-6 SPECIFICATIONS

## ENGINE

|                           |   |
|---------------------------|---|
| Model .....               | Isuzu 6WG1  |
| Type .....                | 4-cycle water-cooled, common rail direct injection      |
| Aspiration .....          | Variable geometry turbocharged, intercooled, cooled EGR |
| Aftertreatment .....      | DOC and SCR system                                      |
| No. of cylinders .....    | 6   |
| Rated power               |   |
| ISO 14396: 2002 Gross     | 463 hp (345 kW) at 1,800 rpm                            |
| ISO 9249: 2007 Net.....   | 463 hp (345 kW) at 1,800 rpm                            |
| SAE J1349, net: 2011      | 1,460 lbf-ft (1,500 Nm) at 1,500 rpm                    |
| Maximum torque .....      | 957 cu in (15.68 L)                                     |
| Piston displacement ..... | 5.8" x 6.1" (147 mm x 154 mm)                           |
| Bore and stroke .....     | 2 x 12 V / 170 Ah                                       |
| Batteries .....           | 2 x 12 V / 170 Ah                                       |

## HYDRAULIC SYSTEM

### Hydraulic Pumps

|                        |  |
|------------------------|--|
| Main pumps .....       | 2 variable displacement axial piston pumps |
| Maximum oil flow ..... | 2 x 129 gal/m (2 x 489 L/min)              |
| Pilot pump .....       | 1 gear pump                                |
| Maximum oil flow ..... | 13.2 gal/m (50 L/min)                      |

### Hydraulic Motors

|              |   |
|--------------|---|
| Travel ..... | 2 variable displacement axial piston motors |
| Swing .....  | 2 axial piston motor                        |

### Relief Valve Settings

|                         |                     |
|-------------------------|---------------------|
| Implement circuit ..... | 4,627 psi (31.9MPa) |
| Swing circuit .....     | 4,264 psi (29.4MPa) |
| Travel circuit .....    | 4,975 psi (34.3MPa) |
| Pilot circuit .....     | 566 psi (3.9MPa)    |
| Power boost .....       | 4,975 psi (34.3MPa) |

### Hydraulic Cylinders

Unit: in (mm)

|        | Quantity | Bore       | Rod diameter |
|--------|----------|------------|--------------|
| Boom   | 2        | 7.5" (190) | 5.1" (130)   |
| Arm    | 1        | 7.9" (200) | 5.5" (140)   |
| Bucket | 1        | 7.1" (180) | 5.1" (130)   |

## UPPERSTRUCTURE

### Revolving Frame

D-section frame for resistance to deformation.

### Swing Device

Axial piston motor with planetary reduction gear is bathed in oil. Swing parking brake is spring-set/hydraulic-released disc type.

|                    |                          |
|--------------------|--------------------------|
| Swing speed .....  | 9.0 rpm                  |
| Swing torque ..... | 143,087 lbf-ft (194 kNm) |

## UNDERCARRIAGE

### Tracks

Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

### Numbers of Rollers and Shoes on Each Side

|                     |    |
|---------------------|----|
| Upper rollers ..... | 3  |
| Lower rollers ..... | 8  |
| Track shoes .....   | 47 |
| Track guards .....  | 2  |

### Travel Device

Each track driven by axial piston motor through reduction gear for counter rotation of the tracks. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.

|                              |                                    |
|------------------------------|------------------------------------|
| Travel speeds .....          | High: 0 to 3.2 mph (0 to 5.2 km/h) |
|                              | Low: 0 to 2.2 mph (0 to 3.6 km/h)  |
| Maximum traction force ..... | 103,412 lbf (460 kN)               |
| Gradeability .....           | 70% (35 degree) continuous         |

## ENVIRONMENT

|                        |                              |
|------------------------|------------------------------|
| Engine Emissions ..... | EPA Final Tier 4/EU Stage IV |
|------------------------|------------------------------|

## SOUND LEVEL

|  |               |
|--|---------------|
| Sound level in cab according to ISO 6396: 2008 .....                               | LpA 74 dB(A)  |
| External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC ..... | LwA 108 dB(A) |

## SERVICE REFILL CAPACITIES

Unit: gal (L)

|                                |            |
|--------------------------------|------------|
| Fuel tank .....                | 238 (900)  |
| Engine coolant .....           | 20.1 (76)  |
| Engine oil .....               | 15.1 (57)  |
| Swing device.....              | 2.8 (10.5) |
| Travel device (each side)..... | 4.2 (16)   |
| Hydraulic system.....          | 198 (750)  |
| Hydraulic oil tank.....        | 100 (380)  |
| DEF/AdBlue® tank.....          | 25.1 (95)  |



## WEIGHTS AND GROUND PRESSURE

## Operating Weight and Ground Pressure

| Bucket Capacity  | Boom type             | Arm type                              | Shoe grouser type | Shoe width in (mm) | Operating weight lb (kg) | Ground pressure psi (kPa) |
|--|-----------------------|---------------------------------------|-------------------|--------------------|--------------------------|---------------------------|
| 3.27 yd <sup>3</sup> (2.5 m <sup>3</sup> )<br>(ISO heaped) | 25' 7" H<br>(7.8 m H) | 13' 9" Semi-long<br>(4.2 m Semi-long) | Double            | 36" (900)          | 151,237 (68,600)         | 10.7 (74)                 |

## BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

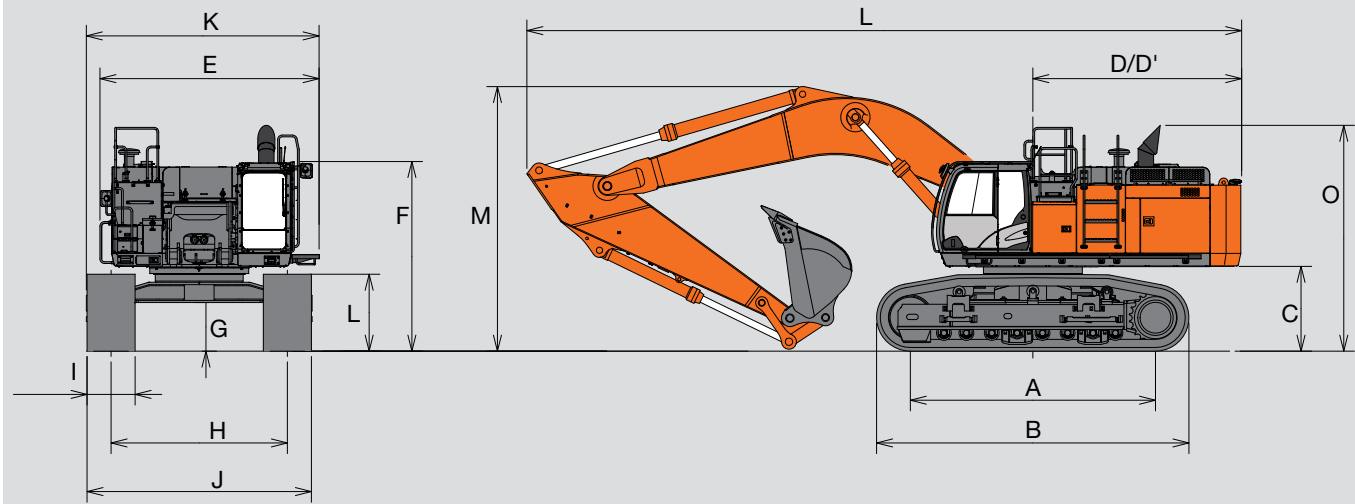
|                                      |                |
|--------------------------------------|----------------|
| Arm length                           | 13' 9" (4.2 m) |
| Arm crowd force* ISO 6015: 2006      | 51,931 (231)   |
| Bucket digging force* ISO 6015: 2006 | 72,838 (324)   |

\* At power boost



# ZX690LC-6 SPECIFICATIONS

## DIMENSIONS



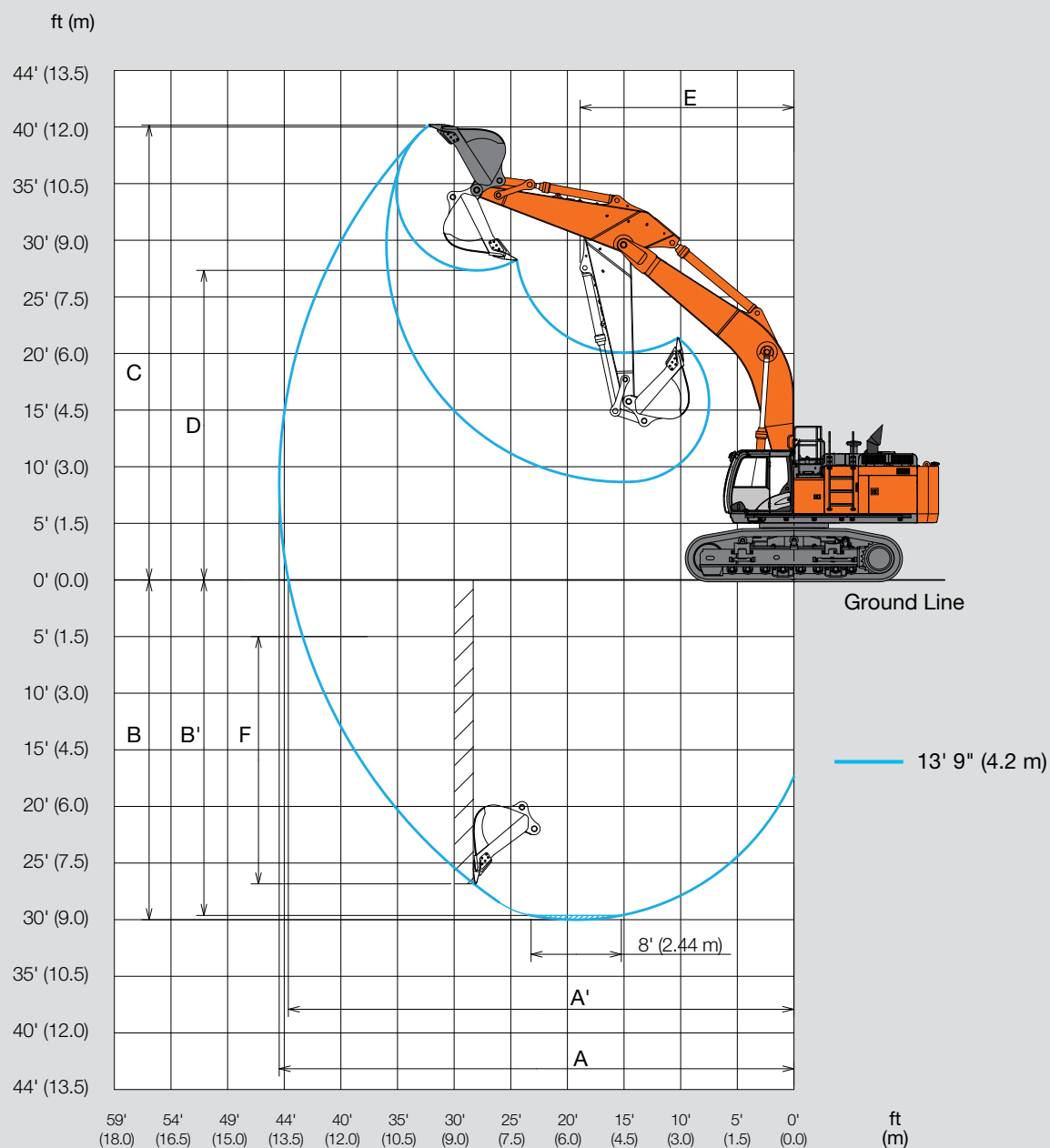
Unit: ft-in (mm)

|   | ZX690LC-6                     |
|---|-------------------------------|
| A Distance between tumblers               | 15' 1" (4,590)                |
| B Undercarriage length                    | 19' 2" (5,840)                |
| *C Counterweight clearance                | 4' 6" (1,530)                 |
| D Rear-end swing radius                   | 13' 2" (4,020)                |
| D' Rear-end length                        | 12' 10" (3,910)               |
| E Overall width of upperstructure         | 13' 5" (4,090)                |
| F Overall height of cab                   | 11' 8" (3,560)                |
| *G Min. ground clearance                  | 2' 10" (860)                  |
| H Track gauge; Extended/Retracted         | 10' 10" (3,300)/9' 3" (2,830) |
| I Track shoe width                        | 36" (900)                     |
| J Undercarriage width; Extended/Retracted | 13' 9" (4,200)/12' 3" (3,730) |
| K Overall width                           | 14' 4" (4,360)                |
| *L Overall length                         | 43' 11" (13,400)              |
| M Overall height of boom                  | 16' 4" (4,980)                |
| N Track height                            | 4' 9" (1,440)                 |
| O Overall height of base machine          | 13' 10" (4,230)               |

\* Excluding track shoe lug



## WORKING RANGES



Unit: ft-in (mm)

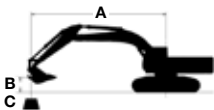
|   | ZX690LC-6       |
|---|-----------------|
| Arm length                                  | 13' 9" (4.2 m)  |
| A Max. digging reach                        | 45' 5" (13,850) |
| A' Max. digging reach (on ground)           | 44' 8" (13,610) |
| B Max. digging depth                        | 30' (9,150)     |
| B' Max. digging depth for 8' (2.44 m) level | 29' 8" (9,030)  |
| C Max. cutting height                       | 40' 2" (12,240) |
| D Max. dumping height                       | 27' 4" (8,330)  |
| E Min. swing radius                         | 18' 11" (5,760) |
| F Max. vertical wall digging depth          | 26' 10" (8,180) |

Excluding track shoe lug



# ZX690LC-6 MACHINE CAPACITIES

**Boldface type** indicates hydraulically limited capacity; lightface type indicates stability limited capacities, in lb (kg). All machine capacities are based on ISO 10567 (with power boost). Ratings at bucket lift hook; Machine equipped with standard counterweight and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.



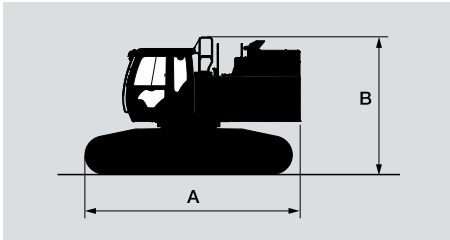
A: Load radius  
B: Load point height  
C: Machine capacity

ZX690LC-6

Rating over-frontRating over-side or 360 degreesUnit: lb (kg)

| Conditions  | Load point height<br>ft (m) | Load radius               |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                   |
|---|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|
|   |                             | 10' (3.0 m)               |                           | 15' (4.5 m)               |                           | 20' (6.0 m)               |                           | 25' (7.5 m)               |                           | 30' (9.0 m)               |                           | 35' (10.5 m)              |                   |
|   |                             | <div></div>               | <div></div>               | <div></div>               | <div></div>               | <div></div>               | <div></div>               | <div></div>               | <div></div>               | <div></div>               | <div></div>               | <div></div>               | <div></div>       |
| Boom 25'7" H<br>(7.8 m)<br><br>Arm 13' 9"<br>(4.2 m)<br><br>Bucket 4,740 lb<br>(2,150 kg)<br><br>Counterweight<br>21,605 lb<br>(9,800 kg)<br><br>Double grouser shoes<br>36" (900 mm) | 25' (7.5 m)                 |                           |                           |                           |                           |                           |                           |                           |                           | <b>23,790</b><br>(10,790) | <b>23,790</b><br>(10,790) |                           |                   |
|   | 20' (6.0 m)                 |                           |                           |                           |                           |                           |                           |                           |                           | <b>25,460</b><br>(11,540) | <b>25,460</b><br>(11,540) | <b>20,250</b><br>(9,185)  | 19,630<br>(8,904) |
|   | 15' (4.5 m)                 |                           |                           | <b>54,750</b><br>(24,830) | <b>54,750</b><br>(24,830) | <b>39,600</b><br>(17,960) | <b>39,600</b><br>(17,960) | <b>32,080</b><br>(14,550) | <b>32,080</b><br>(14,550) | <b>27,710</b><br>(12,560) | 25,530<br>(11,580)        | <b>25,020</b><br>(11,340) | 19,200<br>(8,700) |
|   | 10' (3.0 m)                 |                           |                           |                           |                           | <b>46,870</b><br>(21,250) | <b>46,870</b><br>(21,250) | <b>36,260</b><br>(16,440) | 33,010<br>(14,970)        | <b>30,190</b><br>(13,690) | 24,420<br>(11,070)        | 26,400<br>(11,970)        | 18,580<br>(8,420) |
|   | 5' (1.5 m)                  |                           |                           |                           |                           | <b>52,390</b><br>(23,760) | 44,360<br>(20,120)        | <b>39,820</b><br>(18,060) | 31,380<br>(14,230)        | <b>32,420</b><br>(14,700) | 23,410<br>(10,610)        | 26,480<br>(12,010)        | 17,980<br>(8,150) |
|   | 0 (Ground)                  |                           |                           | <b>32,800</b><br>(14,870) | <b>32,800</b><br>(14,870) | <b>55,260</b><br>(25,060) | 42,760<br>(19,390)        | <b>42,130</b><br>(19,100) | 30,210<br>(13,700)        | 33,370<br>(15,130)        | 22,630<br>(10,260)        | 25,980<br>(11,780)        | 17,510<br>(7,940) |
|   | 5' (1.5 m)                  | <b>24,430</b><br>(11,080) | <b>24,430</b><br>(11,080) | <b>45,600</b><br>(20,680) | <b>45,600</b><br>(20,680) | <b>55,570</b><br>(25,200) | 42,030<br>(19,060)        | <b>42,840</b><br>(19,430) | 29,550<br>(13,400)        | 32,870<br>(14,900)        | 22,160<br>(10,050)        | 25,740<br>(11,670)        | 17,290<br>(7,840) |
|   | 10' (3.0 m)                 | <b>40,170</b><br>(18,220) | <b>40,170</b><br>(18,220) | <b>63,880</b><br>(28,970) | <b>63,880</b><br>(28,970) | <b>53,470</b><br>(24,250) | 41,960<br>(19,030)        | <b>41,640</b><br>(18,880) | 29,380<br>(13,320)        | 32,780<br>(14,860)        | 22,070<br>(10,010)        |                           |                   |
|   | 15' (4.5 m)                 | <b>59,140</b><br>(26,820) | <b>59,140</b><br>(26,820) | <b>63,390</b><br>(28,750) | <b>63,390</b><br>(28,750) | <b>48,600</b><br>(22,040) | 42,460<br>(19,250)        | <b>37,850</b><br>(17,160) | 29,720<br>(13,480)        | <b>28,680</b><br>(13,000) | 22,520<br>(10,210)        |                           |                   |
|   | 20' (6.0 m)                 |                           |                           | <b>51,240</b><br>(23,240) | <b>51,240</b><br>(23,240) | <b>39,460</b><br>(17,890) | <b>39,460</b><br>(17,890) | <b>28,970</b><br>(13,140) | <b>28,970</b><br>(13,140) |                           |                           |                           |                   |

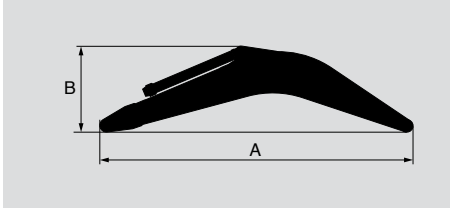




### BASIC MACHINE (WITHOUT COUNTERWEIGHT)

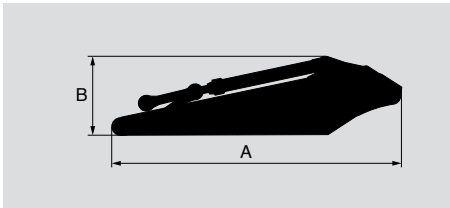
| Shoe width<br>in (mm) | A<br>ft-in (mm)    | B<br>ft-in (mm)    | Overall width*<br>ft-in (mm) | Weight<br>lb (kg)  |
|-----------------------|--------------------|--------------------|------------------------------|--------------------|
| 36"<br>(900 mm)       | 21' 11"<br>(6,700) | 13' 11"<br>(4,230) | 12' 3"<br>(3,730)            | 97,003<br>(44,000) |

\*Undercarriage retracted, without additional step



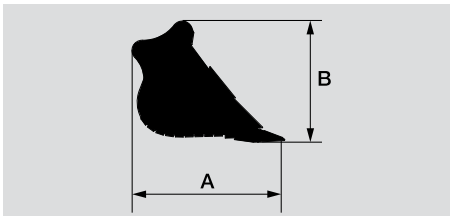
### BOOM

| Boom                 | A ft-in<br>(mm)   | B ft-in<br>(mm)  | C ft-in<br>(mm)  | Weight<br>lb (kg) |
|----------------------|-------------------|------------------|------------------|-------------------|
| 25' 7" H<br>(7.8m H) | 26' 8"<br>(8,130) | 7' 8"<br>(2,330) | 4' 7"<br>(1,390) | 14,462<br>(6,560) |



### ARM

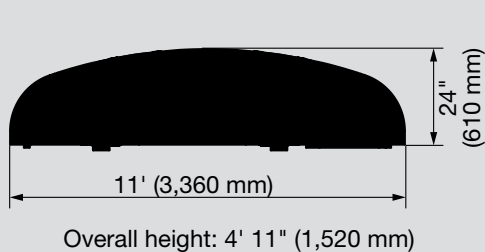
| Arm                                   | A ft-in<br>(mm) | B ft-in<br>(mm) | C ft-in<br>(mm) | Weight<br>lb (kg) |
|---------------------------------------|-----------------|-----------------|-----------------|-------------------|
| 13' 9" Semi-long<br>(4.2 m Semi-long) | 18' 9" (5,710)  | 4' 7" (1,390)   | 2' 7" (790)     | 8,664 (3,930)     |



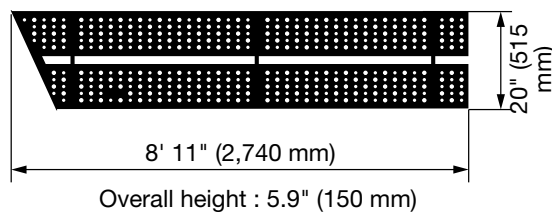
### BUCKET

| Bucket             | Capacity yd <sup>3</sup> (m <sup>3</sup> ) | A<br>ft-in (mm) | B<br>ft-in (mm) | Overall width<br>ft-in (mm) | Weight<br>lb (kg) |
|--------------------|--|-----------------|-----------------|-----------------------------|-------------------|
|                    | ISO<br>heaped                              |                 |                 |                             |                   |
| General<br>purpose | 3.27 (2.5)                                 | 7' 3" (2,220)   | 5' 11" (1,810)  | 5' 4" (1,620)               | 4,740 (2,150)     |

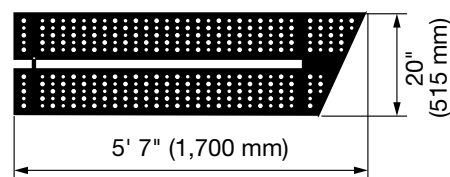
### COUNTERWEIGHT 21,605 lb (9,800 kg)



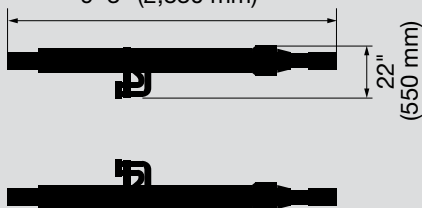
### LEFT FRONT SIDEWALK 121 lb (55 kg)



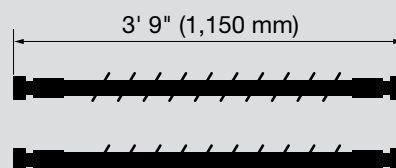
### LEFT REAR SIDEWALK 66 lb (30 kg)



### BOOM CYLINDERS 1,212 lb (550 kg) X 2 9' 3" (2,830 mm)



### HOSE OF BOOM CYLINDER 15 lb (7 kg) X 2 / 22 lb (10 kg) X 2



# ZX690LC-6 EQUIPMENT

| ENGINE   | ZX690LC-6 |
|--|-----------|
| Aftertreatment device  | ●         |
| Air cleaner double filters   | ●         |
| Alternator 50 A  | ●         |
| Auto idle system   | ●         |
| Auto shut-down control   | ●         |
| Cartridge-type engine oil filter   | ●         |
| Cartridge-type fuel main filter  | ●         |
| ConSite OIL (Sensor)*  | ●         |
| DEF/AdBlue® tank inlet strainer and extension filler                             | ●         |
| DEF/AdBlue® tank   | ●         |
| Dry-type air filter with evacuator valve (with air filter restriction indicator) | ●         |
| Dust-proof net   | ●         |
| ECO/PWR/HP mode control  | ●         |
| Engine oil drain coupler   | ●         |
| Electrical fuel feed pump  | ●         |
| Expansion tank   | ●         |
| Fan guard  | ●         |
| Fuel cooler  | ●         |
| Fuel pre-filter  | ●         |
| Isolation-mounted engine   | ●         |
| Radiator, oil cooler and intercooler   | ●         |
| Water separator  | ●         |

| HYDRAULIC SYSTEM                       | ZX690LC-6 |
|--|-----------|
| Auto power lift                        | ●         |
| Boom mode selector system              | ●         |
| ConSite OIL (Sensor)*                  | ●         |
| Control valve with main relief valve   | ●         |
| Drain filter                           | ●         |
| Engine speed sensing system            | ●         |
| Extra port for control valve           | ●         |
| Full flow filter                       | ●         |
| Pilot filter                           | ●         |
| Power boost                            | ●         |
| Quick warm-up system for pilot circuit | ●         |
| Shockless valve in pilot circuit       | ●         |
| Suction filter                         | ●         |
| Work mode selector                     | ●         |

\* Engine oil and hydraulic oil monitoring sensor.

| CAB   | ZX690LC-6 |
|---|-----------|
| All-weather sound suppressed steel cab  | ●         |
| AM-FM radio   | ●         |
| Ashtray   | ●         |
| Auto control air conditioner  | ●         |
| AUX terminal and storage  | ●         |
| Cigarette lighter 24 V  | ●         |
| Drink holder with hot & cool function   | ●         |
| Electric double horn  | ●         |
| Engine shut-off switch  | ●         |
| Evacuation hammer   | ●         |
| Floor mat   | ●         |
| Footrest  | ●         |
| Front window washer   | ●         |
| Glove compartment   | ●         |
| Hot and cool box  | ●         |
| Intermittent windshield wipers  | ●         |
| Key cylinder light  | ●         |
| Laminated round glass front window  | ●         |
| LED room light with door courtesy   | ●         |
| Lever auto locking function   | ●         |
| Motion alarm with cancel switch (conforms to SAE J994: 2014)                  | ●         |
| OPG top guard Level I (ISO 10262: 1998) compliant cab                         | ●         |
| Pilot control shut-off lever  | ●         |
| Power outlet 12 V   | ●         |
| Rain guard  | ●         |
| Rear tray   | ●         |
| Retractable seat belt 3 in.   | ●         |
| ROPS (ISO 12117-2: 2008) compliant cab  | ●         |
| Rubber radio antenna  | ●         |
| Seat: air suspension seat with heater   | ●         |
| Seat adjustment part: backrest, armrest, height and angle, slide forward/back | ●         |
| Short wrist control levers  | ●         |
| Sun visor (multi-use front or side and rear window)                           | ●         |
| Transparent roof with slide curtain   | ●         |
| USB power supply  | ●         |
| 2 speakers  | ●         |
| 6 fluid-filled elastic mounts   | ●         |

●: Standard equipment    ○: Optional equipment

| MONITOR SYSTEM   | ZX690LC-6 |
|--|-----------|
| Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, SCR system trouble, etc. | ●         |
| Alarm buzzers: overheat, engine oil pressure, SCR system trouble   | ●         |
| Display of meters: water temperature, hour, fuel rate, clock, DEF/AdBlue® rate   | ●         |
| Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc.   | ●         |
| 32-language selection  | ●         |

| LIGHTS   | ZX690LC-6 |
|--|-----------|
| Additional boom LED light with cover             | ●         |
| Additional cab roof front LED lights             | ●         |
| LED lights for camera (side and rearview camera) | ●         |
| 2 working LED lights                             | ●         |

| UPPERSTRUCTURE   | ZX690LC-6 |
|--|-----------|
| AERIAL ANGLE® (270-degree view camera system)          | ●         |
| Batteries 2 x 170 Ah                                   | ●         |
| Battery disconnect switch                              | ●         |
| Body top handrail                                      | ●         |
| Counterweight 21,605 lb (9,800 kg)                     | ●         |
| Counterweight removal system                           | ●         |
| Electric fuel refilling pump with auto stop and filter | ●         |
| Fuel level float                                       | ●         |
| Hydraulic oil level gauge                              | ●         |
| Ladder   | ●         |
| Lockable fuel refilling cap                            | ●         |
| Lockable machine covers                                | ●         |
| Lockable tool box                                      | ●         |
| Platform handrail                                      | ●         |
| Rear view mirror (right and left)                      | ●         |
| Sidewalk (cab side)                                    | ●         |
| Skid-resistant plates and handrails                    | ●         |
| Swing parking brake                                    | ●         |
| Undercover   | ●         |
| Utility space  | ●         |



●: Standard equipment    ○: Optional equipment

| UNDERCARRIAGE  | ZX690LC-6 |
|--|-----------|
| Bolt-on sprocket                                       | ●         |
| Reinforced track links with pin seals                  | ●         |
| Shoe: 36" (900 mm) triple grouser                      | ●         |
| Travel direction mark on track frame                   | ●         |
| Travel motor covers                                    | ●         |
| Travel parking brake                                   | ●         |
| Upper and lower rollers                                | ●         |
| 2 track guard (each side) and hydraulic track adjuster | ●         |
| 4 tie-down brackets                                    | ●         |

| ATTACHMENTS                    | ZX690LC-6 |
|--------------------------------|-----------|
| ConSite                        | ○         |
| Global e-Service               | ●         |
| Onboard information controller | ●         |
| Standard tool kit              | ●         |

| FRONT ATTACHMENTS                        | ZX690LC-6 |
|--|-----------|
| Arm 13' 9" Semi-long<br>(4.2m Semi-long) | ●         |
| Boom 25'7" H (7.8m H)                    | ●         |
| Casted bucket link A                     | ●         |
| Centralized lubrication system           | ●         |
| Dirt seal on all bucket pins             | ●         |
| Flanged pin                              | ●         |

Standard and optional equipment may vary by country, so please consult your Hitachi Construction Machinery Americas dealer for details.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan, at test conditions specified per ISO 9249 :2007. No derating is required up to 6,600 ft. (2,000m) altitude.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with 13' 9" (4.2m) Arms; 58" (1,480mm), 4,740 lb (2,150kg) buckets; 21,605 lb (9,800kg) counterweights; full fuel tanks; 165 lb (75kg) operators; and a ZX690LC-6 unit with 36" (900mm) double grouser shoes.

# ZX890LC-6 SPECIFICATIONS

## ENGINE

|                           |   |
|---------------------------|---|
| Model .....               | Isuzu 6WG1  |
| Type .....                | 4-cycle water-cooled, common rail direct injection      |
| Aspiration .....          | Variable geometry turbocharged, intercooled, cooled EGR |
| Aftertreatment .....      | DOC and SCR system                                      |
| No. of cylinders .....    | 6   |
| Rated power               |   |
| ISO 14396: 2002 Gross     | 512 hp (382 kW) at 1,800 rpm                            |
| ISO 9249: 2007 Net.....   | 512 hp (382 kW) at 1,800 rpm                            |
| Maximum torque .....      | 1,622 lbf-ft (2,220 Nm) at 1,450 rpm                    |
| Piston displacement ..... | 957 cu in (15.68 L)                                     |
| Bore and stroke .....     | 5.8" x 6.1" (147 mm x 154 mm)                           |
| Batteries .....           | 2 x 12 V/170 Ah   |

## HYDRAULIC SYSTEM

### Hydraulic Pumps

|                        |  |
|------------------------|--|
| Main pumps .....       | 2 variable displacement axial piston pumps |
| Maximum oil flow ..... | 2 x 147 gal/m (2 x 556 L/min)              |
| Pilot pump .....       | 1 gear pump                                |
| Maximum oil flow ..... | 13.2 gal/m (50 L/min)                      |

### Hydraulic Motors

|              |   |
|--------------|---|
| Travel ..... | 2 variable displacement axial piston motors |
| Swing .....  | 2 axial piston motor                        |

### Relief Valve Settings

|                         |                      |
|-------------------------|----------------------|
| Implement circuit ..... | 4,627 psi (31.9 MPa) |
| Swing circuit .....     | 4,119 psi (28.4 MPa) |
| Travel circuit .....    | 4,975 psi (34.3 MPa) |
| Pilot circuit .....     | 566 psi (3.9 MPa)    |
| Power boost .....       | 4,975 psi (34.3 MPa) |

## Hydraulic Cylinders

Unit: in (mm)

|        | Quantity | Bore       | Rod diameter |
|--------|----------|------------|--------------|
| Boom   | 2        | 8.5" (215) | 5.9" (150)   |
| Arm    | 1        | 8.9" (225) | 6.3" (160)   |
| Bucket | 1        | 7.9" (200) | 5.5" (140)   |

## UPPERSTRUCTURE

### Revolving Frame

D-section frame for resistance to deformation.

### Swing Device

Axial piston motor with planetary reduction gear is bathed in oil. Swing parking brake is spring-set/hydraulic-released disc type.

|                    |                          |
|--------------------|--------------------------|
| Swing speed .....  | 7.8 rpm                  |
| Swing torque ..... | 196,929 lbf-ft (267 kNm) |

## UNDERCARRIAGE

### Tracks

Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

### Numbers of Rollers and Shoes on Each Side

|                     |    |
|---------------------|----|
| Upper rollers ..... | 3  |
| Lower rollers ..... | 9  |
| Track shoes .....   | 51 |
| Track guards .....  | 2  |

### Travel Device

Each track driven by axial piston motor through reduction gear for counter rotation of the tracks. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.

|                              |                                    |
|------------------------------|------------------------------------|
| Travel speeds .....          | High: 0 to 2.9 mph (0 to 4.7 km/h) |
|                              | Low: 0 to 2.0 mph (0 to 3.2 km/h)  |
| Maximum traction force ..... | 125,893 lbf (560 kN)               |
| Gradeability .....           | 70% (35 degree) continuous         |

## ENVIRONMENT

|                        |                              |
|------------------------|------------------------------|
| Engine Emissions ..... | EPA Final Tier 4/EU Stage IV |
|------------------------|------------------------------|

## SOUND LEVEL

|  |               |
|--|---------------|
| Sound level in cab according to ISO 6396: 2008 .....                               | LpA 75 dB(A)  |
| External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC ..... | LwA 108 dB(A) |

## SERVICE REFILL CAPACITIES

Unit: gal (L)

|                                |             |
|--------------------------------|-------------|
| Fuel tank .....                | 293 (1,110) |
| Engine coolant .....           | 32.8 (124)  |
| Engine oil .....               | 15.1 (57)   |
| Swing device.....              | 4.1 (15.7)  |
| Travel device (each side)..... | 5 (19)      |
| Hydraulic system.....          | 275 (1,042) |
| Hydraulic oil tank.....        | 132 (500)   |
| DEF/AdBlue® tank.....          | 25.1 (95)   |



## WEIGHTS AND GROUND PRESSURE

## Operating Weight and Ground Pressure

| Bucket Capacity  | Boom type             | Arm type                              | Shoe grouser type | Shoe width in (mm) | Operating weight lb (kg) | Ground pressure psi (kPa) |
|--|-----------------------|---------------------------------------|-------------------|--------------------|--------------------------|---------------------------|
| 3.79 yd <sup>3</sup> (2.9 m <sup>3</sup> )<br>(ISO heaped) | 27' 7" H<br>(8.4 m H) | 14' 5" Semi-long<br>(4.4 m Semi-long) | Double            | 36" (900)          | 186,511 (84,600)         | 12 (83)                   |

## BUCKET AND ARM DIGGING FORCE

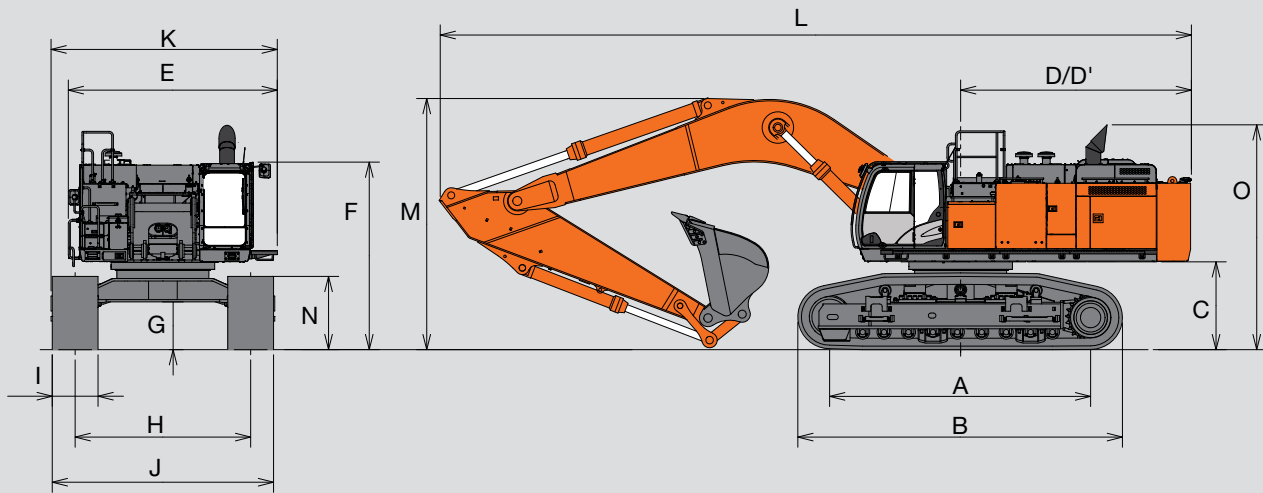
Unit: lbf (kN)

|                                      |                |
|--------------------------------------|----------------|
| Arm length                           | 14' 5" (4.4 m) |
| Arm crowd force* ISO 6015: 2006      | 62,946 (280)   |
| Bucket digging force* ISO 6015: 2006 | 89,699 (399)   |

\* At power boost

# ZX890LC-6 SPECIFICATIONS

## DIMENSIONS



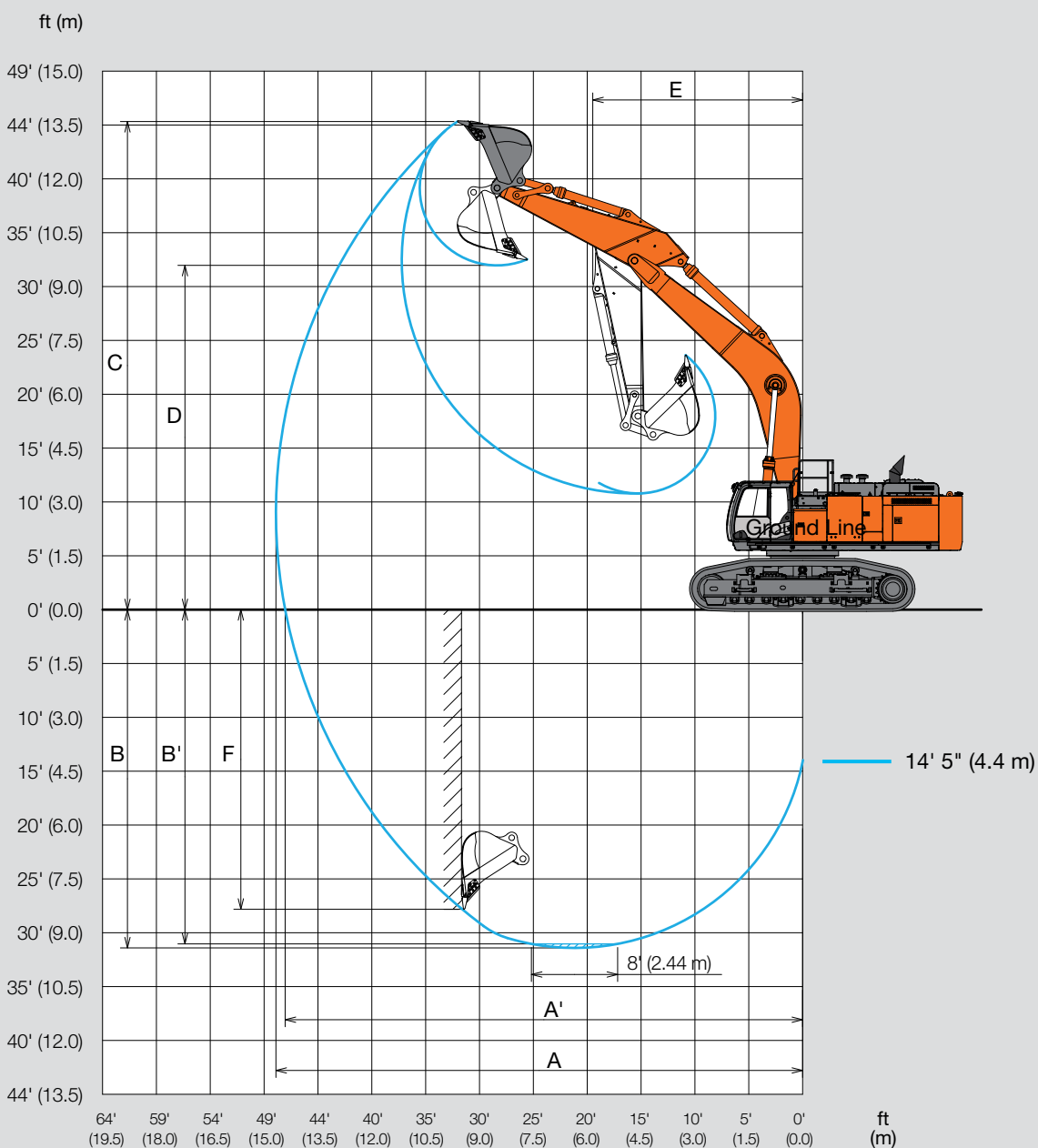
Unit: ft-in (mm)

|  | ZX890LC-6                       |
|--|---------------------------------|
| A Distance between tumblers                  | 16' 9" (5,110)                  |
| B Undercarriage length                       | 20' 10" (6,360)                 |
| *C Counterweight clearance                   | 5' 6" (1,680)                   |
| D Rear-end swing radius                      | 15' 1" (4,600)                  |
| D' Rear-end length                           | 14' 11" (4,540)                 |
| E Overall width of upperstructure            | 13' 6" (4,120)                  |
| F Overall height of cab                      | 12' 1" (3,690)                  |
| *G Min. ground clearance                     | 2' 11" (890)                    |
| H Track gauge; Exrtended / Retracted         | 11' 4" (3,450) / 9' 3" (2,830)  |
| I Track shoe width                           | 36" (900)                       |
| J Undercarriage width; Exrtended / Retracted | 14' 3" (4,350) / 12' 3" (3,730) |
| K Overall width                              | 14' 7" (4,450)                  |
| *L Overall length                            | 48' 7" (14,800)                 |
| M Overall height of boom                     | 16' 10" (5,130)                 |
| N Track height                               | 4' 11" (1,500)                  |
| O Overall height of base machine             | 14' 6" (4,410)                  |

\* Excluding track shoe lug



# WORKING RANGES



Unit: ft-in (mm)

|   | ZX890LC-6        |
|---|------------------|
| Arm length                                  | 14' 5" (4.4 m)   |
| A Max. digging reach                        | 48' 11" (14,910) |
| A' Max. digging reach (on ground)           | 48' (14,640)     |
| B Max. digging depth                        | 31' 5" (9,570)   |
| B' Max. digging depth for 8' (2.44 m) level | 31' (9,460)      |
| C Max. cutting height                       | 45' 4" (13,820)  |
| D Max. dumping height                       | 31' 11" (9,740)  |
| E Min. swing radius                         | 19' 6" (5,950)   |
| F Max. vertical wall digging depth          | 27' 10" (8,480)  |

Excluding track shoe lug

# ZX890LC-6 MACHINE CAPACITIES

**Boldface type** indicates hydraulically limited capacity; lightface type indicates stability limited capacities, in lb (kg). All machine capacities are based on ISO 10567 (with power boost). Ratings at bucket lift hook; Machine equipped with standard counterweight and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.



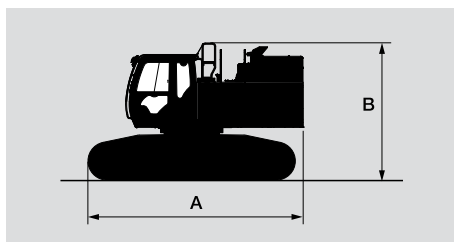
A: Load radius  
B: Load point height  
C: Machine capacity

## ZX890LC-6

Rating over-front Rating over-side or 360 degrees Unit: lb (kg)

| Conditions   | Load point height<br>ft (m) | Load radius               |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                          |
|--|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|
|  |                             | 10' (3.0 m)               |                           | 15' (4.5 m)               |                           | 20' (6.0 m)               |                           | 25' (7.5 m)               |                           | 30' (9.0 m)               |                           | 35' (10.5 m)              |                           | 40' (12.0 m)              |                          |
|  |                             |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                          |
| Boom 27' 7" H<br>(8.4 m)<br><br>Arm 14' 5"<br>(4.4 m)<br><br>Bucket 5,952 lb<br>(2,700 kg)<br><br>Counterweight<br>27,337 lb<br>(12,400 kg)<br><br>Double grouser<br>shoes<br>36" (900 mm) | 30' (9.0 m)                 |                           |                           |                           |                           |                           |                           |                           |                           | <b>27,690</b><br>(12,550) | <b>27,690</b><br>(12,550) | <b>19,450</b><br>(8,820)  | <b>19,450</b><br>(8,820)  |                           |                          |
|  | 25' (7.5 m)                 |                           |                           |                           |                           |                           |                           |                           |                           | <b>29,450</b><br>(13,350) | <b>29,450</b><br>(13,350) | <b>24,640</b><br>(11,170) | <b>24,640</b><br>(11,170) |                           |                          |
|  | 20' (6.0 m)                 |                           |                           |                           |                           |                           |                           | <b>36,620</b><br>(16,610) | <b>36,620</b><br>(16,610) | <b>32,180</b><br>(14,590) | <b>32,180</b><br>(14,590) | <b>29,370</b><br>(13,320) | 27,440<br>(12,440)        | <b>16,450</b><br>(7,460)  | <b>16,450</b><br>(7,460) |
|  | 15' (4.5 m)                 |                           |                           |                           |                           | <b>54,120</b><br>(24,540) | <b>54,120</b><br>(24,540) | <b>42,250</b><br>(19,160) | <b>42,250</b><br>(19,160) | <b>35,520</b><br>(16,110) | 34,820<br>(15,790)        | <b>31,320</b><br>(14,200) | 26,550<br>(12,040)        | <b>23,410</b><br>(10,610) | 20,450<br>(9,270)        |
|  | 10' (3.0 m)                 |                           |                           |                           |                           | <b>63,590</b><br>(28,840) | 62,000<br>(28,120)        | <b>47,810</b><br>(21,680) | 44,520<br>(20,190)        | <b>38,940</b><br>(17,660) | 33,230<br>(15,070)        | <b>33,400</b><br>(15,140) | 25,580<br>(11,600)        | <b>27,730</b><br>(12,570) | 19,980<br>(9,060)        |
|  | 5' (1.5 m)                  |                           |                           |                           |                           | <b>69,870</b><br>(31,690) | <b>59,690</b><br>(27,070) | <b>52,240</b><br>(23,690) | 42,400<br>(19,230)        | <b>41,870</b><br>(18,990) | 31,860<br>(14,450)        | <b>35,220</b><br>(15,970) | 24,700<br>(11,200)        | <b>29,650</b><br>(13,440) | 19,500<br>(8,840)        |
|  | 0 (Ground)                  |                           |                           |                           |                           | <b>68,030</b><br>(30,850) | 58,010<br>(26,310)        | <b>54,870</b><br>(24,880) | 40,980<br>(18,580)        | <b>43,820</b><br>(19,870) | 30,830<br>(13,980)        | <b>36,390</b><br>(16,500) | 24,020<br>(10,890)        | <b>26,770</b><br>(12,140) | 19,140<br>(8,680)        |
|  | -5' (1.5 m)                 |                           |                           | <b>37,550</b><br>(17,030) | <b>37,550</b><br>(17,030) | <b>72,030</b><br>(32,670) | 57,370<br>(26,020)        | <b>55,510</b><br>(25,170) | 40,230<br>(18,240)        | <b>44,410</b><br>(20,140) | 30,230<br>(13,710)        | <b>36,500</b><br>(16,550) | 23,640<br>(10,720)        |                           |                          |
|  | -10' (3.0 m)                | <b>37,410</b><br>(16,960) | <b>37,410</b><br>(16,960) | <b>57,060</b><br>(25,880) | <b>57,060</b><br>(25,880) | <b>69,030</b><br>(31,310) | 57,450<br>(26,050)        | <b>54,000</b><br>(24,490) | 40,060<br>(18,170)        | <b>43,250</b><br>(19,610) | 30,070<br>(13,630)        | <b>34,820</b><br>(15,790) | 23,640<br>(10,720)        |                           |                          |
|  | -15' (4.5 m)                | <b>57,580</b><br>(26,110) | <b>57,580</b><br>(26,110) | <b>81,680</b><br>(37,040) | <b>81,680</b><br>(37,040) | <b>63,220</b><br>(28,670) | 58,120<br>(26,360)        | <b>49,890</b><br>(22,620) | 40,450<br>(18,340)        | <b>39,500</b><br>(17,910) | 30,430<br>(13,800)        |                           |                           |                           |                          |
|  | -20' (6.0 m)                |                           |                           | <b>68,100</b><br>(30,880) | <b>68,100</b><br>(30,880) | <b>53,450</b><br>(24,240) | <b>53,450</b><br>(24,240) | <b>41,730</b><br>(18,920) | 41,520<br>(18,830)        |                           |                           |                           |                           |                           |                          |

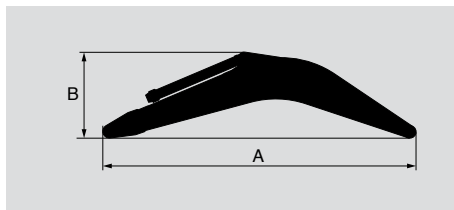




## BASIC MACHINE (WITHOUT COUNTERWEIGHT)

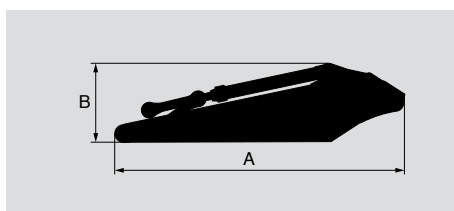
| Shoe width<br>in (mm) | A<br>ft-in (mm)   | B<br>ft-in (mm)   | Overall width*<br>ft-in (mm) | Weight<br>lb (kg)   |
|-----------------------|-------------------|-------------------|------------------------------|---------------------|
| 36"<br>(900 mm)       | 24' 8"<br>(7,530) | 14' 6"<br>(4,410) | 12' 3"<br>(3,730)            | 121,254<br>(55,000) |

\*Undercarriage retracted, without additional step



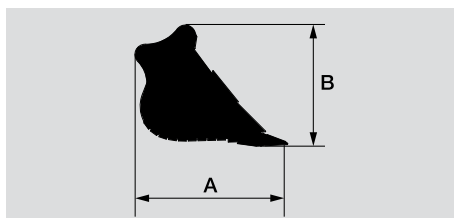
## BOOM

| Boom                  | A ft-in<br>(mm)   | B ft-in<br>(mm)  | C ft-in<br>(mm)  | Weight<br>lb (kg) |
|-----------------------|-------------------|------------------|------------------|-------------------|
| 27' 7" H<br>(8.4 m H) | 28' 9"<br>(8,760) | 8' 3"<br>(2,510) | 4' 9"<br>(1,440) | 18,100<br>(8,210) |



## ARM

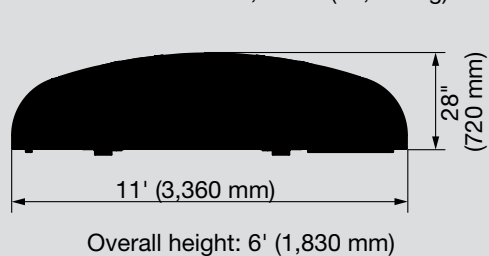
| Arm                                   | A ft-in<br>(mm)   | B ft-in<br>(mm)  | C ft-in<br>(mm) | Weight<br>lb (kg) |
|---------------------------------------|-------------------|------------------|-----------------|-------------------|
| 14' 5" Semi-long<br>(4.4 m Semi-long) | 19' 3"<br>(5,870) | 4' 7"<br>(1,400) | 2' 8"<br>(810)  | 10,229<br>(4,630) |



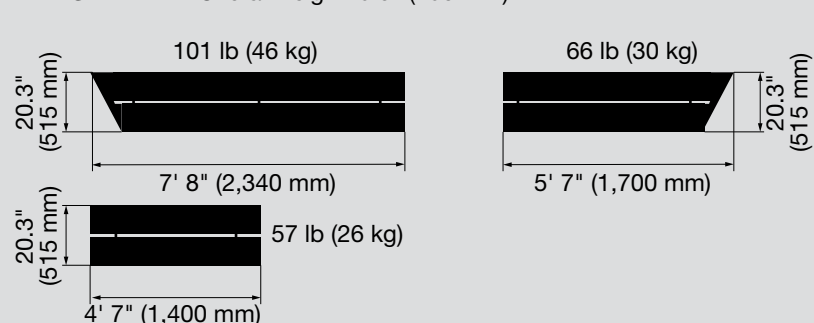
## BUCKET

| Bucket          | Capacity yd <sup>3</sup> (m <sup>3</sup> ) | A<br>ft-in (mm)  | B<br>ft-in (mm)  | Overall width<br>ft-in (mm) | Weight<br>lb (kg) |
|-----------------|--|------------------|------------------|-----------------------------|-------------------|
|                 | ISO heaped                                 |                  |                  |                             |                   |
| General purpose | 3.79<br>(2.9)                              | 7' 3"<br>(2,210) | 6' 3"<br>(1,910) | 5' 10"<br>(1,780)           | 5,952<br>(2,700)  |

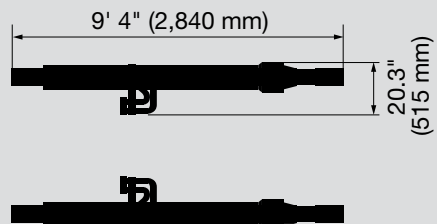
## COUNTERWEIGHT 27,337 lb (12,400 kg)



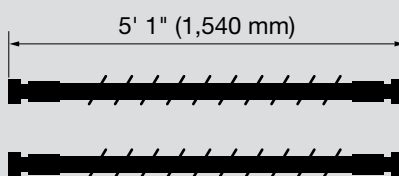
## LEFT SIDEWALK Overall height: 5.9" (150 mm)



## BOOM CYLINDERS 1,874 lb (850 kg) X 2



## HOSE OF BOOM CYLINDER 20 lb (9 kg) X 2 / 29 lb (13 kg) X 2



# ZX890LC-6 EQUIPMENT

| ENGINE   | ZX890LC-6 |
|--|-----------|
| Aftertreatment device  | ●         |
| Air cleaner double filters   | ●         |
| Alternator 50 A  | ●         |
| Auto idle system   | ●         |
| Auto shut-down control   | ●         |
| Cartridge-type engine oil filter   | ●         |
| Cartridge-type fuel main filter  | ●         |
| ConSite OIL (Sensor)*  | ●         |
| DEF/AdBlue® tank inlet strainer and extension filler                             | ●         |
| DEF/AdBlue® tank   | ●         |
| Dry-type air filter with evacuator valve (with air filter restriction indicator) | ●         |
| Dust-proof net   | ●         |
| ECO/PWR/HP mode control  | ●         |
| Engine oil drain coupler   | ●         |
| Electrical fuel feed pump  | ●         |
| Expansion tank   | ●         |
| Fan guard  | ●         |
| Fuel cooler  | ●         |
| Fuel pre-filter  | ●         |
| Isolation-mounted engine   | ●         |
| Radiator, oil cooler and intercooler   | ●         |
| Water separator  | ●         |

| HYDRAULIC SYSTEM                       | ZX890LC-6 |
|--|-----------|
| Auto power lift                        | ●         |
| Boom mode selector system              | ●         |
| ConSite OIL (Sensor)*                  | ●         |
| Control valve with main relief valve   | ●         |
| Drain filter                           | ●         |
| Engine speed sensing system            | ●         |
| Extra port for control valve           | ●         |
| Full flow filter                       | ●         |
| Pilot filter                           | ●         |
| Power boost                            | ●         |
| Quick warm-up system for pilot circuit | ●         |
| Shockless valve in pilot circuit       | ●         |
| Suction filter                         | ●         |
| Work mode selector                     | ●         |

\* Engine oil and hydraulic oil monitoring sensor.

| CAB   | ZX890LC-6 |
|---|-----------|
| All-weather sound suppressed steel cab  | ●         |
| AM-FM radio   | ●         |
| Ashtray   | ●         |
| Auto control air conditioner  | ●         |
| AUX terminal and storage  | ●         |
| Cigarette lighter 24 V  | ●         |
| Drink holder with hot & cool function   | ●         |
| Electric double horn  | ●         |
| Engine shut-off switch  | ●         |
| Evacuation hammer   | ●         |
| Floor mat   | ●         |
| Footrest  | ●         |
| Front window washer   | ●         |
| Glove compartment   | ●         |
| Hot and cool box  | ●         |
| Intermittent windshield wipers  | ●         |
| Key cylinder light  | ●         |
| Laminated round glass front window  | ●         |
| LED room light with door courtesy   | ●         |
| Lever auto locking function   | ●         |
| Motion alarm with cancel switch (conforms to SAE J994: 2014)                  | ●         |
| OPG top guard Level I (ISO 10262: 1998) compliant cab                         | ●         |
| Pilot control shut-off lever  | ●         |
| Power outlet 12 V   | ●         |
| Rain guard  | ●         |
| Rear tray   | ●         |
| Retractable seat belt 3 in.   | ●         |
| ROPS (ISO 12117-2: 2008 ) compliant cab                                       | ●         |
| Rubber radio antenna  | ●         |
| Seat: air suspension seat with heater   | ●         |
| Seat adjustment part: backrest, armrest, height and angle, slide forward/back | ●         |
| Short wrist control levers  | ●         |
| Sun visor (multi-use front or side and rear window)                           | ●         |
| Transparent roof with slide curtain   | ●         |
| USB power supply  | ●         |
| 2 speakers  | ●         |
| 6 fluid-filled elastic mounts   | ●         |

●: Standard equipment ○: Optional equipment

| MONITOR SYSTEM   | ZX890LC-6 |
|--|-----------|
| Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, SCR system trouble, etc. | ●         |
| Alarm buzzers: overheat, engine oil pressure, SCR system trouble   | ●         |
| Display of meters: water temperature, hour, fuel rate, clock, DEF/AdBlue® rate   | ●         |
| Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc.   | ●         |
| 32-language selection  | ●         |

| LIGHTS   | ZX890LC-6 |
|--|-----------|
| Additional boom LED light with cover             | ●         |
| Additional cab roof front LED lights             | ●         |
| LED lights for camera (side and rearview camera) | ●         |
| 2 working LED lights                             | ●         |

| UPPERSTRUCTURE   | ZX890LC-6 |
|--|-----------|
| AERIAL ANGLE® (270-degree view camera system)          | ●         |
| Batteries 2 x 170 Ah                                   | ●         |
| Battery disconnect switch                              | ●         |
| Body top handrail                                      | ●         |
| Counterweight 27,337 lb (12,400 kg)                    | ●         |
| Counterweight removal system                           | ●         |
| Electric fuel refilling pump with auto stop and filter | ●         |
| Fuel level float                                       | ●         |
| Hydraulic oil level gauge                              | ●         |
| Ladder   | ●         |
| Lockable fuel refilling cap                            | ●         |
| Lockable machine covers                                | ●         |
| Lockable tool box                                      | ●         |
| Platform handrail                                      | ●         |
| Rear view mirror (right and left)                      | ●         |
| Sidewalk (cab side)                                    | ●         |
| Skid-resistant plates and handrails                    | ●         |
| Swing parking brake                                    | ●         |
| Undercover   | ●         |
| Utility space  | ●         |



●: Standard equipment    ○: Optional equipment

| UNDERCARRIAGE  | ZX890LC-6 |
|--|-----------|
| Bolt-on sprocket                                       | ●         |
| Reinforced track links with pin seals                  | ●         |
| Shoe: 36" (900mm) double grouser                       | ●         |
| Travel direction mark on track frame                   | ●         |
| Travel motor covers                                    | ●         |
| Travel parking brake                                   | ●         |
| Upper and lower rollers                                | ●         |
| 2 track guard (each side) and hydraulic track adjuster | ●         |
| 4 tie down brackets                                    | ●         |

| ATTACHMENTS                    | ZX890LC-6 |
|--------------------------------|-----------|
| ConSite                        | ○         |
| Global e-Service               | ●         |
| Onboard information controller | ●         |
| Standard tool kit              | ●         |

| FRONT ATTACHMENTS                      | ZX890LC-6 |
|--|-----------|
| Arm 14' 5" Semi-long (4.4 m Semi-long) | ●         |
| Boom 27' 7" H (8.4 m H)                | ●         |
| Casted bucket link A                   | ●         |
| Centralized lubrication system         | ●         |
| Dirt seal on all bucket pins           | ●         |
| Flanged pin                            | ●         |

Standard and optional equipment may vary by country, so please consult your Hitachi Construction Machinery Americas dealer for details.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan, at test conditions specified per ISO 9249: 2007. No derating is required up to 6,600 ft. (2,000m) altitude.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with 14' 5" (4.4 m) Arms; 60" (1,590 mm), 5,952 lb (2,700 kg) buckets; 27,337 lb (12,400kg) counterweights; full fuel tanks; 165 lb (75 kg) operators; and a ZX890LC-6 unit with 36" (900 mm) double grouser shoes.



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Reliable solutions



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**BUILT ON IT.**

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