

# ZAXIS135



## ZX135-7EB

The ZX135-7EB is Hitachi's next-generation 13-tonne class electric excavator, designed to deliver robust performance and reliability while meeting the growing demand for sustainable construction solutions. Engineered with a powerful 660V lithium-ion battery and advanced electric drive systems, the ZX135-7EB matches the productivity and operability of conventional diesel models, but with zero exhaust emissions and significantly reduced noise. Its innovative dual-mode operation, featuring both battery-powered and power grid assist modes, ensures flexibility and continuous uptime, making it ideal for urban, indoor, and environmentally sensitive job sites. The ZX135-7EB is not just a machine; it's a forward-thinking investment for contractors seeking to combine operational excellence with environmental responsibility.

### Discover the benefits

- ✓ Zero exhaust gas emissions make this model ideal for projects in urban, indoor and exhaust-regulated environments.
- ✓ Much lower noise and vibration levels than diesel models make it suitable for work at night or residential areas.
- ✓ Equivalent performance and attachment compatibility to the 13-tonne diesel excavator.
- ✓ Lower operating and maintenance costs compared to diesel models thanks to fewer moving parts, less frequent servicing and the lower cost of electricity versus fuel.
- ✓ Offers both battery-powered and power grid assist modes, eliminating charging downtime and allowing for continuous operation—even when disconnected from the grid.

## ELECTRIC EXCAVATOR

### Specifications

Model code : ZX135-7EB

Nominal power : 74 kW

Main battery capacity: 198 kWh

Operating weight : 14 600 – 16 900 kg

Bucket capacity : 0.19 – 0.66 m<sup>3</sup>

### Operating Performance

Indicative runtime : 7 – 8 hours <sup>1</sup>

Indicative AC charging time : 6 hours <sup>2</sup>

Indicative DC charging time: 1 hour <sup>2</sup>

LANDCROS

<sup>1</sup> The stated runtime is based on a representative workload and specified conditions from a full charge. Actual runtime may vary depending on usage.  
<sup>2</sup> The stated charging time is calculated at maximum charging power and under specified conditions. Charging performance may vary depending on the specifications of the charging equipment and the condition of the battery.

# SPECIFICATIONS

## ELECTRIC SYSTEM

### Main Motor

Nominal power ..... 74 kW at 2 000 min<sup>-1</sup>

### Battery

660 V battery type ..... Lithium-ion

Battery voltage ..... 660 V

Battery capacity  
(full package) ..... 198 kWh

24 V battery type ..... Lead-acid

Battery voltage ..... 2 x 12 V

### Charging

AC charging inlet ..... CEE 400 V AC 3-phase

On-board AC charger  
output ..... 42 kW (with variable selection)

DC charging inlet ..... CCS Type2

DC charging power ..... 158 kW (with variable selection)

## HYDRAULIC SYSTEM

### Hydraulic Pumps

Main pumps ..... 2 variable displacement axial piston pumps

Maximum oil flow ..... 2 x 117 L/min

Pilot pump ..... 1 gear pump

Maximum oil flow ..... 33.6 L/min

### Hydraulic Motors

Travel ..... 2 variable displacement axial piston motors

Swing ..... 1 axial piston motor

### Relief Valve Settings

Implement circuit ..... 34.3 MPa

Swing circuit ..... 32.3 MPa

Travel circuit ..... 34.3 MPa

Pilot circuit ..... 3.9 MPa

Power boost ..... 36.3 MPa

### Hydraulic Cylinders

Unit: mm

	Quantity	Bore	Rod diameter
Boom	2	105	70
Arm	1	115	80
Bucket	1	100	70
Positioning*1	1	140	95

\*1 : For 2-piece boom

## ENVIRONMENT

### Air Conditioning System

The air conditioning system contains fluorinated greenhouse gases.

EU: Refrigerant type: R-1234yf, GWP: 0.501, Amount: 0.65 kg, CO<sub>2</sub>e: 0.00033 ton.

UK: Refrigerant type: R-1234yf, GWP: 4, Amount: 0.65 kg, CO<sub>2</sub>e: 0.000260 ton.

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your authorized dealer in case of questions about compliance.

## UPPERSTRUCTURE

### Revolving Frame

D-section frame for resistance to deformation.

### Swing Device

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

Swing speed ..... 13.3 min<sup>-1</sup>

Swing torque ..... 34 kNm

## UNDERCARRIAGE

### Tracks

Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

### Numbers of Rollers and Shoes on Each Side

	ZX135-7EB
Upper rollers	1
Lower rollers	7
Track shoes	44
Track guards	1

### Travel Device

Each track driven by 2-speed axial piston motor.

Parking brake is spring-set/hydraulic-released disc type.

Automatic transmission system: High-Low.

Travel speeds ..... High : 0 to 5.5 km/h  
Low : 0 to 3.3 km/h

Maximum traction force ..... 117 kN

Gradeability ..... 70% (35 degree) continuous

## SERVICE REFILL CAPACITIES

Unit: L

	ZX135-7EB
Coolant (for power electric components)	16.9
Coolant (for BTMS)	9.1
Coolant (for A/C)	2.0
Swing device	3.2
Travel device (each side)	4.2
Hydraulic system	165.0
Hydraulic oil tank	67.0

These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features.

Before use, read and understand the Operator's Manual for proper operation.