

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 m³

Operating Performance

Indicative runtime : 7 – 8 hours ^{*1}

Indicative AC charging time : 6 hours ^{*2}

Indicative DC charging time: 1 hour ^{*2}

^{*1} The stated runtime is based on a representative workload and specified conditions from a full charge. Actual runtime may vary depending on usage.

^{*2} 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.

LANDCROS

SPECIFICATIONS

ELECTRIC SYSTEM

Main Motor

Nominal power 74 kW at 2 000 min⁻¹

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, CO₂e: 0.00033 ton.

UK: Refrigerant type: R-1234yf, GWP: 4, Amount: 0.65 kg, CO₂e: 0.000260 ton.

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⁻¹
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

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.

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.