ZOOMLION TECHNOLOGY WITH INGENUITY AND CARE











THE WORLD'S LEADING EXCAVATOR INTELLIGENT MANUFACTURING FACTORY

ZOOMLION Smart City Earthmoving Machinery Park is an industry-leading intelligent and flexible excavator factory. From a piece of steel plate to an excavator, with high-precision welding process, highly reliable assembly process, high-level coating process and strict quality control, each excavator is delivered with ultimate quality.



ZOOMLION

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Note: Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment.

ZOOMLION 2-TON BATTERY ELECTRIC CRAWLER HYDRAULIC EXCAVATOR

ZE20GE



VISION CREATES FUTURE

SUPERIOR PERFORMANCE

DRIVER COMFORT

NEW CONTROL PANEL

WORKABILITY

ZOOMLION MINI-EXCAVATOR

ZE20GE

MOTOR POWER:
10 kW @ 2200 rpm

BATTERY CAPACITY:
29 kWh

OPERATING WEIGHT:
2100 kg

BUCKET CAPACITY:
0.04 m³





VERSATILE ZE20GE

Versatile ZE20GE has powerful performance and features, which can easily meet customer needs. A high configuration model is equipped with a breaker plumbing, a quick coupler plumbing, and multiple attachment plumbings, and allows the user to control the plumbing with a switch on the joystick for easier operation.

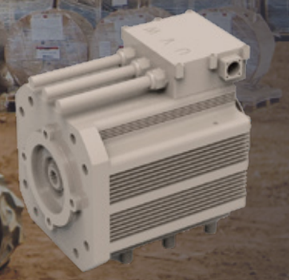
SUPERIOR PERFORMANCE

BATTERY SYSTEM WITH A MAXIMUM OPERATING DURATION OF 8 HOURS



- With a large capacity of **29 kWh**, it can meet the requirement of continuous operation for up to **8 hours**.
- Stable Operation at Low Temperatures: Featuring a built-in intelligent heating system, it maintains consistent performance even in severe cold conditions of **-30**℃.
- The enclosure protection level reaches **IP67**, enabling it to adapt to complex working environments.
- Equipped with an efficient **BMS** (Battery Management System): By monitoring and optimizing the battery, it enables longer battery lifespan and higher energy utilization efficiency.

POWERFUL ELECTRIC MOTOR



- **10kW** Permanent Magnet Synchronous Motor.
- Two-Stage Automatic Idle Function: It intelligently adjusts energy output, realizing more efficient energy utilization.
- Long-Term Operation Guarantee: It supports **8 hours** of continuous operation under the **S9 gear** (duty cycle).
- Comprehensive Protection Enhancement: The motor also achieves an IP67 protection rating.

THE NEW-GENERATION OF ZOOMLION MAIN PUMP



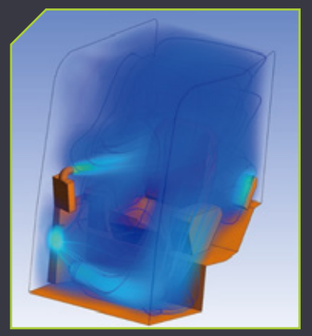
- The **35cc** large-displacement main pump is combined with the large-torque, high-power reserve engine to achieve low fuel consumption and high work efficiency.

COMFORTABLE DRIVING EXPERIENCE

Equipped with a spacious and brand-new luxurious cab, this 2-ton electric mini excavator offers more comfort and luxury experience to tackle any challenges.

AIR-CONDITIONER (STANDARD)

The air conditioner is customized for drivers to provide a comfortable working environment.





SUSPENSION SHOCK-ABSORBING SEAT

You can adjust the shock absorption effect based on the actual load. Together with the angle-adjustable backrest, and the concealed seat belt that is reboundable, you can enjoy a safe, reliable and comfortable driving experience.





LARGE SPACE DESIGN

It enjoys spacious legroom, where operation will not be limited by space. The entrance also features large size for drivers to easily get inside and outside. The room is not mini in this mini-excavator.





ENTERTAINMENT SYSTEM

High-quality audio equipment and radios provide a relaxing working environment for the driver.

CONSIDERATE DESIGN

Large entry space, convenient for the driver to enter and exit the cab.



CONVENIENT DESIGN

The space designed for the driver's mobile phone ensures that the driver will not miss important information due to being too absorbed in their work.





ADJUSTABLE ARMREST

Adjustable armrest, which perfectly matches with the joystick, letting the operator work in the most comfortable posture with high efficiency.

NEW CONTROL PANEL

CONTROL PANEL

The LCD instrument panel provides key control. The user-friendly operation panel is not only full of technology, but also retains the physical key touch feeling. The menu bar on the right allows you to view key information such as engine speed, coolant temperature, and fuel level.



1. Battery voltage	2. Working hours	3. Coolant temperature	4. Battery level
5. Fault warning	6. Light	7. High and low speed switching	
8. Menu bar	9. Operation menu	10. Alarm	



A MULTIFUNCTIONAL JOYSTICK FOR A HIGH-CONFIGURATION MACHINE

The multifunctional joystick of a high configuration machine can better assist customers in controlling various attachments to complete various tasks.

B SMOOTH THROTTLE

The electronic throttle design offers smooth power. Easily control this device.

C 2-SPEED TRAVEL SWITCH

The high and low speeds can be controlled through the handle buttons, which conforms to the ergonomic design and makes the switching operation more convenient.

D ROPS/FOPS CAB

Safety is our primary concern. The cab meets ROPS (Roll-Over Protective Structure) and FOPS (Falling Objects Protective Structure) requirements. This is in line with our "people-oriented" concept to provide customers with a good working environment and improve work efficiency.

RETRACTABLE TRACK

When using heavy attachments, to optimize stability, the ZE20GE track can be extended to a maximum of 1300 millimeters or contracted to 980 millimeters, enabling passage through narrow doorways and operation in confined spaces. Any adjustment can be made within a few seconds through the operation control system.



WORKABILITY

BOOM CYLINDER PROTECTION

Different from the traditional boom cylinder position, the boom cylinder of ZE20GE is located above the boom to provide protection for the boom cylinder. This design avoids the stone splash damage to the cylinder especially in the breaking work.



OPEN INSPECTION

You can check the hydraulic system through the window by opening the bottom plate, without the need to remove and tighten bolts or take other actions.



FRAGILE COMPONENTS PROTECTION

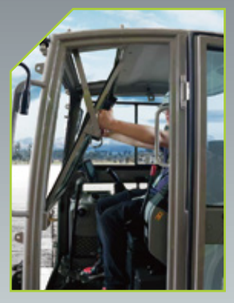
The working piping and boom harness are built in to protect these fragile components from damage.



EASY-OPEN FRONT SLIDE WINDOW

The front windshield window of the ZE20GE model opens very easily. Just turn the locking levers on both sides of the window and then slide it upwards. An air-assisted device makes this operation almost effortless.







EASY CHARGING

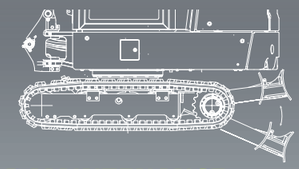
It boasts dual charging modes—fast (DC) and slow (AC). Fast charging delivers a full charge in just 1.5 hours, ensuring highly efficient emergency power replenishment; slow charging enables steady, unhurried energy storage over 10 hours, making it perfectly suited for overnight charging during stationary periods.





WIDE ADJUSTMENT RANGE

Smoothly traverse slopes and obstacles, providing a more stable working posture.



FLOATING POSITION

The floating function is a standard feature of the ZE20GE. Level ground work can be completed quickly and easily without adjusting the blade height. After backfilling is completed, simply set the dozer blade to the floating mode and drive backward along the covered trench.

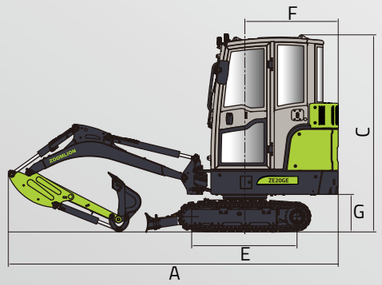


ONE-STOP MAINTENANCE

To open the whole tail covering piece, you only need to gently press the lock and rotate the buckle. All maintenance parts are within reach, maintenance space is large, and the maintenance method is simple, which greatly reduces the maintenance time and increases the work efficiency.



ZE20GE	
DIMENSIONS	
Overall length A	3860 mm
Overall width B	980/1300 mm
Overall height C	2340 mm
Track gauge D	750/1070 mm
Length of track on ground E	1230 mm
Tail swing radius F	1100 mm
Counterweight ground clearance G	450 mm
Minimum ground clearance H	150 mm
PERFORMANCE PARAMETERS	
Operating weight	2100 kg
Standard bucket capacity	0.04 m^3
Motor power	10 kW@2000 rpm
Travel speed (high/low)	4.2/2.2 km/h
Swing speed	9.5 r/min
WORK RANGE	
Max. digging reach A'	4130 mm
Max. digging reach at ground level B'	4070 mm
Max. digging depth C'	2555 mm
Max. vertical digging depth D'	2225 mm
Max. digging height E'	3630 mm
Minimum front swing radius F'	2550 mm



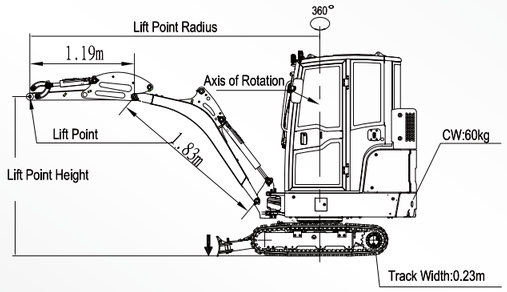


ZE20GE	
HYDRAULIC SYSTEM	
Main pump	Maximum flow rate: 62.5 L/min
Working oil circuit	25 MPa
Swing oil circuit	16.2 MPa
Traveling oil circuit	20.6 MPa
Pilot oil circuit	3.5 MPa
BASIC TECHNICAL DATA	
Digging force of bucket (ISO)	18.2 kN
Digging force of arm (ISO)	8.5 kN
Max. drawbar pull	16.6 kN
Boom length	1830 mm
Arm length	1190 mm
AMOUNT OF FILLING FOR MAINTENANCE	
Hydraulic system	27 L
Hydraulic tank	21 L
BATTERY INFORMATION	
Battery capacity	29 kWh
Voltage	48 V
Materials	Lithium iron phosphate battery
ELECTRICAL MOTOR INFORMATION	
Motor type	Permanent magnet synchronous motor
Rated torque	43.5 N·m

LIFT CAPACITY

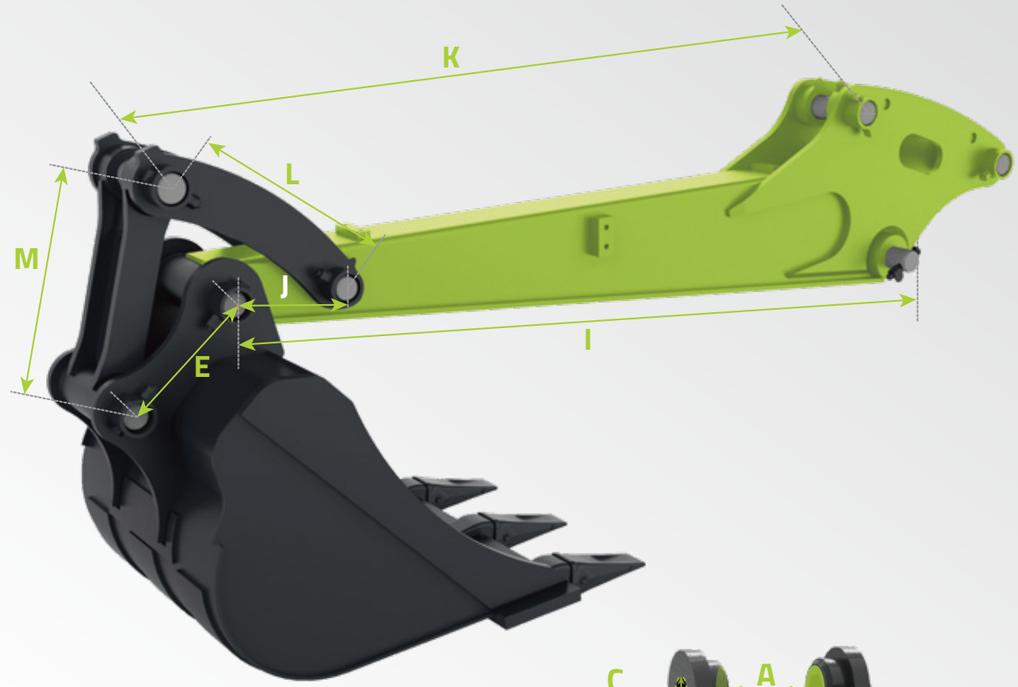
LIFT POINT HEIGHT	Lift Point Radius (1.0 m)		Lift Point Radius (2 m)		Lift Point Radius (MAX)	
	over-front (kg)	over-side (kg)	over-front (kg)	over-side (kg)	over-front (kg)	over-side (kg)
2.0 m			292*	280*	289*	287*
1.5 m			375*	387*	280*	225*
1.0 m			555*	550*	287*	253*
0 m			745*	556*	316*	296*
-0.5 m	700*	430	500*	260*	276*	260
-1.5 m					331*	331*

Notes:
1. Load with * is limited by hydraulic capacity and based on ISO10567. Rated loads do not exceed 87% of the hydraulic capacity.
2. Load without * is limited by tipping load and based on ISO10567. Rated loads do not exceed 75% of the tipping capacity.
3. The excavator bucket, hook, sling and other lifting accessories are not included in this table.



SYSTEM	CONFIGURATION ITEM	ZE20GE
Powertrain	Rated power	10 kW / 2200 rpm
	Rated voltage	48 V
	Battery capacity	29 kWh
Hydraulic system	Boom cylinder hose burst valve	●
	Arm cylinder hose burst valve	●
	Breaker plumbing (one/two-way switchable)	●
	Attachment plumbing	●
	Quick coupler plumbing	●
	Flow regulation attachment plumbing	●
Cab	Cab	●
	FOPS	●
	ROPS	●
	Air conditioner	●
	Multifunctional joystick	●
Lower structure	Double-grouser steel track	○
	Rubber track	●
	Rubber track pad	○230 mm
	230mm track	●
	Carrier roller, single side	●Single carrier roller
	Track roller, single side	●3
	Lower track guard, single side	○Single track guard
	Bulldozer Dozer	●
Work equipment	Standard boom length	●1830 mm
	Standard arm length	●1190 mm
Bucket	Standard configuration	○0.04 m^3 reinforced bucket
	Optional part 1	○300 mm narrow bucket
	Optional part 2	○900 mm wide flat bucket
Electrical system	Audible and visual alarm	●
	Emergency stop switch	●
	12V power port	●
	Boom working light	●1
	GPS	●

● STANDARD ○ OPTIONAL



Unit: mm

MODEL	A	B	C	D	E	F	G	H	I
ZE20GE	96	96	30	30	100	175	47	25	1190

MODEL	J	K	L	M
ZE20GE	85	798	176	176