

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 900KG SKID-STEER LOADER ZS090V



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ZOOMLION



**VISION
CREATES
FUTURE**



The ZOOMLION skid-steer loader provides you with outstanding performance, exceptional comfort, ease of maintenance, and superior durability.

OUTSTANDING PERFORMANCE

Well-known brand engine

- High-pressure common-rail system and diesel particulate filter (DPF)

- The high-pressure common-rail system electronically controls the time and amount of fuel injected in sections to ensure full combustion of fuel, improve fuel efficiency and economical efficiency, and reduce engine noise.

- Equipped with exhaust gas recirculation technology and a DPF, the ZS090V meets the Euro 5 emission standards.

Strong power

- Powerful and reliable 47.9 kW engine gets the job done with ease.

Regeneration system

- It can burn off the smoke and dust accumulated in the DPF muffler, keeping the muffler clean and prolonging the working time. For safety reasons, the automatic regeneration system can be switched off when working in fire-prone areas. When regeneration is required, the display will remind you to regenerate timely.

Economical fuel

The combination of a fixed throttle knob and a foot-operated throttle balances the need for power with economical efficiency.



10-gear knob fixed throttle

Constant engine speed can be maintained during operations such as cold milling, trenching, sweeping, snow removal, and drilling.



Automatic reset foot-operated throttle

The foot-operated throttle can be used to increase engine speed when strong power is needed for a short period of time.

- Outstanding performance
- Exceptional comfort
- Excellent safety
- Ease of maintenance
- Superior durability

Engine power: 47.9 kW
Rated load (50%): 901 kg
Tipping load: 1,802 kg
Bucket breakout force: 18.5 kN
Operating weight: 2,998 kg

EXCELLENT PASSABILITY

Travel speed

Standard 11.5 km/h speed (maximum travel speed) can meet the need for fast run.



Standard heavy-duty tires

Anti-crack heavy-duty tires have a durable tread pattern for excellent grip and stability.

Optional solid tires

The solid tire design makes the tire super wear-resistant, further enhances its service life, and avoids the risk of flat tires.

High ground clearance for a greater departure angle

With a high ground clearance of 201 mm and a 25° departure angle, the ZS090V easily crosses large obstacles, allowing it to drive on more rugged surfaces and work in more complex environments.

UNIQUE VERTICAL LIFTING ARM

The bionic design of the arm, like the "downward curved willow leaf," improves lateral vision and protects you during work.

The maximum distance is **790 mm**

The maximum dump height is **2,377 mm**

The maximum height dump angle of **42°** results in faster unloading

The wheelbase of **1,080 mm** makes the working process more stable

The maximum bucket breakout force is **18.5 kN**



STABLE HYDRAULIC SYSTEM

Internationally renowned brand core parts

Hydraulic core parts adopt an internationally renowned brand, which provides a more stable hydraulic system

Internationally available flow interfaces for attachment

Standard 1/2-inch male and female connectors and 3/8-inch male connectors

Proportional control of attachment flow

Proportional foot-operated valves are used to control the flow output of the attachment, which makes it more accurate

Optional high-flow attachment system

With the option of a high-flow system, the attachment flow system has been increased from 70 L/min to 110 L/min to provide strong support for attachment work

Optional automatic levelling system

No need to manually adjust the angle during operation to maintain the attachment position when lifting the attachment

EXCEPTIONAL COMFORT



Exceptional comfort

The panoramic cab increases safety during work



Optional suspension seat

An even more outstanding suspension seat allows you to maintain an excellent working condition



Ample legroom

The spacious cab offers ample legroom to help reduce operator fatigue



Optional cupholder

A cupholder under the right armrest makes it easy to place a cup of water to quench your thirst while you work



Optional air-conditioning configuration

It provides superior cooling and heating all year round



Reading lamp

A standard reading lamp makes it easy to view and read inside the cab



Large-screen instrument

A standard large-screen instrument results in friendly human-machine interaction. It can remind maintenance information and fault information in real time



Pressurized cab

The pressurized cab effectively isolates dust, flying debris, and insects, enabling you to work in a comfortable environment with minimized distractions, lower noise levels, and reduced fatigue even during extended work periods



12V power output

With a maximum power output of 120 W, it can charge mobile phones and power other small electronic devices

EXCELLENT SAFETY



Optional cab side guard
The side guard protects your lateral safety



FOPS/ROPS cab
A cab certified for FOPS/ROPS provides protection in the event of unforeseen rollovers and falling objects



Optional turn signals and exterior rearview mirrors
They do not move with the lifting arm, making it easy to observe the situation at the back of the body at any time and keeping you safe



Optional reversing camera
Its large display at the front of the cab and the high-definition camera at the rear ensure a complete view of the machine's rear door



Hydraulic lines are located inside the lifting arm for perfect protection of the hydraulic lines



Optional license plate holder and license plate lamp at the rear end
They make it easy to identify your vehicle

EASE OF MAINTENANCE



Interior maintenance

The cab can be tilted without raising the boom, easy to check the hydraulic pump, multi-way valve, and pipelines



Daily inspections

Opening the rear door and the upper cover grants access to all components for daily inspections



Integrated toolbox

The toolbox is integrated into the cab floor for easy storage of tools

- 1 Engine injectors
- 2 Engine oil level gauge
- 3 Battery
- 4 Hydraulic oil filter
- 5 Fuel filter
- 6 Air filter
- 7 Fuel-water separator
- 8 Oil filter



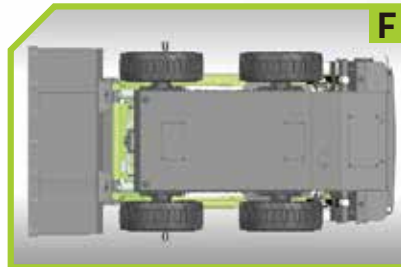
Side-mounted sprocket box

Sprocket boxes arranged on the side facilitate daily maintenance and inspection



Mud cleaning port

Two cleaning ports at the front of the cab ensure quick and easy removal of mud and debris from the interior of the cab




The bottom ensures quick and easy removal of mud and debris from the lower part of the machine

LCD instrument enables real-time monitoring of maintenance information


Long service intervals reduce frequent maintenance, allowing oil changes every 500 hours

VARIOUS ATTACHMENTS


Combination Bucket



Trencher



Sweeper



- Sweeper
- Sweeper with gutter brush
- Angle Broom
- Dozer Blade
- Snow Blower

- Grapple, Industrial
- Mixing Bucket
- Scraper
- Snow Blade
- Tiller

- Trencher
- Mower
- Auger
- Bale fork
- Combination Bucket

- Grapple, Root
- Breaker
- Pallet Forks

Auger



Angle Broom



Scraper



LIST OF OPTIONS

Standard Configuration

- Adjustable suspension seat
 - Attachment hydraulic system
 - Mechanical quick change device
 - Reversing alarm
 - Hand and foot control mode
 - ISO control mode
 - Horn
 - 0.44 m³ bucket
 - Integrated instrument
 - Lifting arm safety support
 - Front and rear work lamp and driving lamp
 - Enclosed cab (meets ROPS and FOPS safety requirements of the CE certification; has car trim, left and right side windows, sunroof, rear window, and front door; power connector; wiper and water bottle, and reading lamp)
- Safety interlock device
 - Two-point safety belt
 - Safety bar
 - Built-in rearview mirror
 - 10 x 16.5 standard tires
 - Universal sign
 - Floating arm function

Optional configuration

- Fan heater
 - Heating and cooling air conditioner
 - SSS31×10-20 solid tires
 - Rotating warning lamp
 - Reversing camera
 - TUG information platform
 - Movable blade
 - Movable bucket teeth
 - Emergency stop switch
 - Attachment quick coupling dust cover
 - Wiring harness for electrical control of attachment
 - Turn signals & exterior rearview mirror
 - License plate bracket & license plate lamp
 - Hydraulic quick change device
- Exterior rearview mirror
 - Safety hammer
 - Fire extinguisher
 - Automatic bucket levelling
 - Cab side guard
 - External counterweight
 - High-flow system
 - Cup holder

MAIN PARAMETERS

Item	ZS090V
Model	
Rated Operating Capacity	901 kg
Tipping Load	1802 kg
Operating Weight	2998 kg
Standard Bucket Capacity	0.44 m³
Performance Parameters	
Boom Breakout Force(ISO)	16.5 kN
Bucket Breakout Force(ISO)	18.5 kN
Max. Travel speed	11.5 km/h
Max Gradeability	25° (46 %)
Max. Drawbar Pull	23 kN
Engine Parameters	
Emission certification	EU V
Gross power (SAE J1995 Gross)	48.6/2700 kW/rpm
Net power (SAE J1349 Net)	47.9/2700 kW/rpm
Diesel Tank	72 L
Displacement	2434 ml
Coolant (Standard Level)	11 L
Hydraulic System Parameters	
Hydraulic Tank Volume (Standard Level)	35 L
Hydraulic System (Standard Level)	70 L
Work System (Standard Flow)	70 L/min
Work System (Max. Flow)	110 L/min
Traveling System Pressure	28 MPa
Work Equipment System Pressure	21 MPa

Item	ZS090V
Overall Dimensions	
Overall Length (with bucket)	3364 mm
Overall Width (with bucket)	1725 mm
Overall Height (To Cab Top)	1998 mm
Bucket Hinge Pin Height	3039 mm
Tail Length	1049 mm
Ground Clearance	201 mm
Departure Angle	25 °
Tire Edge Width	1630 mm
Front Turning Radius (Without Bucket)	1233 mm
Front Turning Radius (With Bucket)	1968 mm
Rear Turning Radius	1689 mm
Work Range	
Max. Operating Height	3826 mm
Max. Dump Height	2377 mm
Dump Angle at Maximum Height	42 °
Bucket Tilting Angle at Maximum Height	86 °
Max. Bucket Retracting Angle at Flat Ground	24 °
Dump Reach	790 mm
Undercarriage Parameters	
Wheel Base	1080 mm
Tread Width	1356 mm
Tire Size	10-16.5 mm

Dimensions and work range diagram

