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 SKID-STEER LOADER

ZS120V

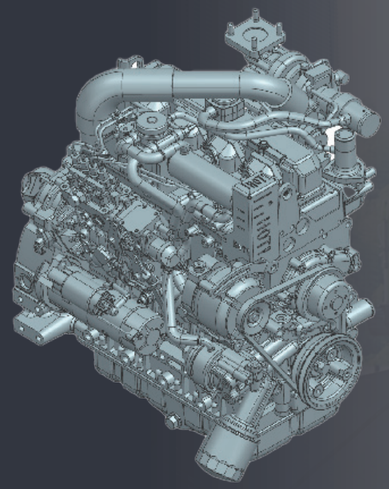
ZOOMLION

VISION CREATES FUTURE

ZOOMLION Skid-Steer Loader serves you with excellent performance, extraordinary comfort, convenient maintenance, and outstanding durability.

Engine power: 53.4 kW (71.56 hp)
Rated payload: 1385 kg (3047 lb)
Tipping load: 2770 kg (6094 lb)
Bucket breakout force: 25.9 kN (5822.55 lbf)
Lift arm breakout force: 23.1 kN (5193.09 lbf)
Operating weight: 3900 kg (8580 lb)

OUTSTANDING PERFORMANCE



Strong power

▪ Powerful and reliable 53.4kW engine gets the job done with ease.

Fuel efficiency

▪ The combination of hand throttle and throttle pedal balances power demand and fuel economy.

Self-reset throttle pedal

▪ When strong power is needed in a short time, the engine speed can be increased by using the throttle pedal.

Hand Throttle

▪ When performing cold milling, trenching, sweeping, snow removal, and drilling operations, the engine speed can be kept constant.

High ground clearance and greater departure angle

With its 215mm ground clearance and 25° departure angle, the ZS120V can easily overcome large obstacles, navigate rough terrain, and work in more complex environments.

Travel speed

Standard 11.1km/h maximum travel speed to meet rapid transfer needs

Standard heavy-duty tires

Wear-resistant heavy-duty tires are durable and feature outstanding grip and stability

Optional solid tires

Optional solid tires have a longer service life, adaptable to extremely complex conditions, and are puncture-resistant to avoid air leakage.

MULTIPLE ATTACHMENTS

International standard quick coupler interface, compatible to attachments from different manufacturers

- Sweeper
- Sweeper (with Side Brush)
- Angle broom
- Six-way bulldozer
- Snow blower (low throw)
- Industrial grab bucket
- Concrete mixing bucket
- Scraper
- Snow pusher
- Rotary tiller
- Trencher
- Mower
- Auger
- Haystack handling fork
- 4-in-1 bucket
- Gardening grab bucket
- Hydraulic breaker
- Pallet fork

UNIQUE VERTICAL LIFT ARM

Unlike the circular arc lift, the unique linkage structure of vertical lift technology makes the lifting trajectory of the front end of the working arm to be approximately vertical, which reduces the frequent forward and backward movement of the machine, and allows unloading to be completed in-situ, which gives a greater advantage to loading and unloading of materials in narrow indoor spaces, such as warehouses and in-building constructions.

The downward-bent arm with a bionic willow leaf design increases the lateral visibility, ensuring operation safety

Maximum dump reach **856** mm (33.72 in).

Maximum dump height **2520** mm (99.29 in).

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

Maximum bucket breakout force: **25.9**kN (5822.55 lbf)

Maximum arm breakout force:**23.1**kN (5193.09 lbf)

The wheel base of **1239** mm (48.81 in) makes the working process more stable.

STABLE HYDRAULIC SYSTEM

Internationally renowned brand core parts

Hydraulic core parts from internationally renowned brand, ensuring a more stable hydraulic system.

Outstanding flow system for attachments

Standard 1/2 inch male-female connector and 3/8 inch male connector.

Optional hydraulic quick coupler

Optional hydraulic quick coupler allows you to install or remove attachments without leaving your seat.

Ultra-fast response speeds boost your work efficiency

Lifting cylinder extension time: 4.5s
Lifting cylinder retraction time: 2.3s
Bucket cylinder retraction time: 1.7s

Optional high-flow attachment system

The option of a high-flow system can increase the attachment flow from 96L/min to 139L/min, providing strong support for attachment work.

Optional automatic leveling system

Automatically keeps the attachment or bucket level when raising the lifting arm.

EXCEPTIONAL COMFORT

Outstanding 360° visibility

The bucket can be seen from the seat, improving safety during work processes.

Pressurized cab

The pressurized cab effectively isolates dust, debris and insects, minimizing noise levels.

Optional air conditioner

Provides excellent cooling and heating performance.

Optional cup holder

The cup holder under the right armrest is convenient for placing a water cup to quench thirst while working.

Ample legroom

The spacious cab provides ample legroom, which helps to alleviate fatigue.

Standard multi-function instrument

Key information such as fuel level, hour meter, voltage faults, and fault alarms can be displayed through the instrument panel.

120W Power Output

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

Reading lamp

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

EXCELLENT SAFETY

FOPS/ROPS cab

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

Optional cab side guard

The optional cab side guard protects your lateral safety.

Optional reversing video camera

The optional reversing video camera features the large display at the front of the cab and the high-definition camera at the rear, ensuring a complete view of the machine's rear door.

Built-in hydraulic lines

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

Optional turn signals and exterior rearview mirrors

Optional turn signals and exterior rearview mirrors do not move with the lift arm, making it easy to observe the situation at the back of the body at any time, ensuring operation safety.

Optional license plate holder

Optional license plate holder and plate lamp make it easy to identify your machine.

EASE OF MAINTENANCE

Daily Inspections

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

- A Engine oil filler
- B Engine oil dipstick
- C Battery
- D Engine oil filter
- E Air filter
- F Coolant tank
- G Fuel-water separator
- H Fuel filter
- I Fuel filler
- J Oil Return Filter

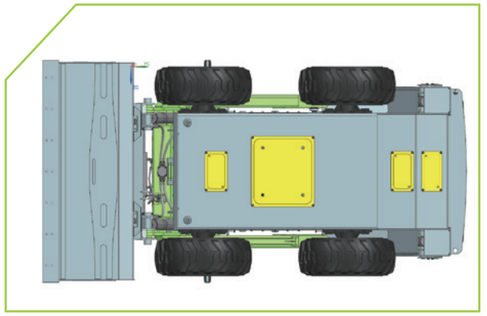
Long service intervals reduce frequent maintenance, allowing oil changes every 500 hours.

Side-mounted sprocket box

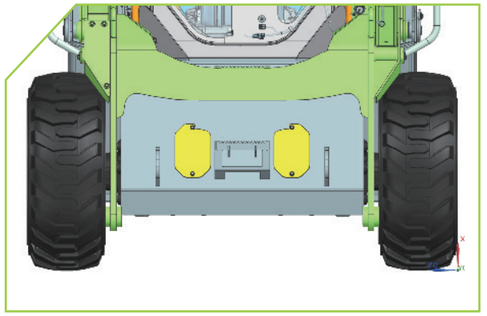
Sprocket boxes on the side facilitate daily maintenance and inspection.

Mud cleaning port

Three cleaning ports at the bottom ensure quick and easy removal of mud and debris from the bottom of the machine.



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



Top-mounted independent cooling system

Lifting the cab and radiator provides access to the engine compartment, making it easier to inspect and maintain the power, hydraulic, and electrical systems.

The radiator can be flipped upwards 30°

The radiator components are located at the top of the engine compartment, which prevents damage from the rear and facilitates daily cleaning and maintenance.

LIST OF OPTIONS

No.	Items	ZS120V
1	Adjustable seat	●
2	Attachment hydraulic system	●
3	Mechanic quick coupler	●
4	Backup alarm	●
5	Hand and foot control mode	●
6	Horn	●
7	0.6 m³(0.79 yd³) Bucket	●
8	Integrated instrument	●
9	Lift arm safety support	●
10	Front and rear work lamp and driving lamp	●
11	Safety interlock device	●
12	Two-point safety belt	●
13	Safety bar	●
14	Built-in rearview mirror	●
15	12x16.5 standard tires	●
16	Universal Label	●
17	Enclosed cab (meets ROPS and FOPS safety requirements of the CE certification, and includes interior trim, left/light side window, sunroof, rear window, front door, power supply, wiper and water tank and reading lamp)	●
18	Safety Hammer	●
19	Fire extinguisher	●
20	Emergency stop switch	●
21	Floating arm function	●
22	GPS	●
23	High-flow system	●
24	Fan heater (Items A and B cannot be installed simultaneously)	○
25	Air conditioner (Items A and B cannot be installed simultaneously)	○
26	SSS33X12-20 solid tires (Cancel item 15: 12x16.5 standard tires)	○
27	Rotating Beacon	○
28	Harness for electrical control of attachment	○
29	Reversing video camera (Cancel item 14: built-in rearview mirror)	○
30	Movable blade (Items H and I cannot be installed simultaneously)	○
31	Movable bucket teeth (Items H and I cannot be installed simultaneously)	○
32	English label and attached materials	○
33	Exterior rearview mirror	○
34	Attachment quick coupling dust cover	○
35	Automatic leveling system	○
36	Cab side guard	○
37	Hydraulic quick coupler	○
38	Adjustable suspension seat	○
39	Engine heating	○

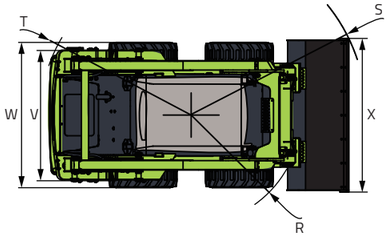
● STANDARD
○ OPTIONAL

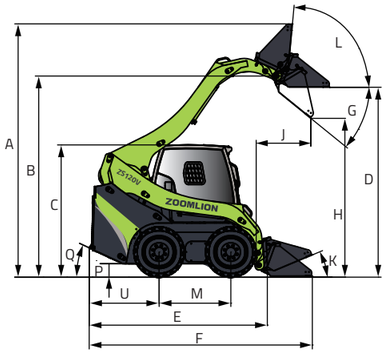
MAIN PARAMETERS

Item	ZS120V	
Operating Weight	3900 kg	8580 lb
Bucket Capacity	0.6 m³	0.79 yd³
Rated Payload	1385 kg	3047 lb
Tipping Load	2770 kg	6094 lb
Max. Travel Speed	11.1 km/h	11.1 km/h
Max. Rim-Pull Force	28 kN	6294.65 lbf
Max. Arm Breakout Force	23.1 kN	5193.09 lbf
Maximum Bucket Breakout Force	25.9 kN	5822.55 lbf
Max. Gradeability	25 ° / 46%	25 ° / 46%
Rated Power/RPM	53.4 kW/2400 rpm	71.56 hp/2400 rpm
Emission Standard	EPA T4F	EPA T4F
Max. Flow (Standard System)	96 L/min	25.34 gal/min
Max. Flow (Large-Flow System)	139 L/min	36.7 gal/min
Work Equipment Hydraulic Pressure	21 MPa	3045.84 psi
Travel System Hydraulic Pressure	32 MPa	4641.28 psi
Fuel Tank (Full)	90 L	23.76 gal
Coolant (Standard Level)	11 L	2.9 gal
Hydraulic System (Standard Level)	80 L	21.12 gal
Hydraulic Tank (Standard Level)	27.5 L	7.26 gal

Item		ZS120V	
A	Max. Operating Height	4115 mm	162.13 in
B	Bucket Hinge Pin Height	3240 mm	127.66 in
C	Overall Height (To Cab Top)	2065 mm	81.36 in
D	Max. Horizontal Height of Bucket Bottom	3128 mm	123.24 in
E	Overall Length (Without Bucket)	2865 mm	112.88 in
F	Overall Length (With Bucket)	3636 mm	143.26 in
G	Dump Height	40°	40°
H	Max. Dump Height	2521 mm	99.33 in
J	Dump Reach	856 mm	33.72 in
K	Bucket Retracting Angle at Flat Ground	24°	24°
L	Bucket Tilting Angle at Maximum Height	84°	84°
M	Wheel Base	1239 mm	48.81 in
P	Ground Clearance	215 mm	8.47 in
Q	Departure Angle	25°	25°
R	Front Turning Radius (Without Bucket)	1367 mm	53.86 in
S	Front Turning Radius (With Bucket)	2213 mm	87.29 in
T	Rear Turning Radius	1732 mm	68.24 in
U	Tail Length	1015 mm	39.99 in
V	Tread Width	1460 mm	57.52 in
W	Tire Edge Width	1846 mm	72.73 in
X	Bucket Edge Width	1905 mm	75.05 in

Dimensions and Work Range Diagram





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EARTHMOVING MACHINERY