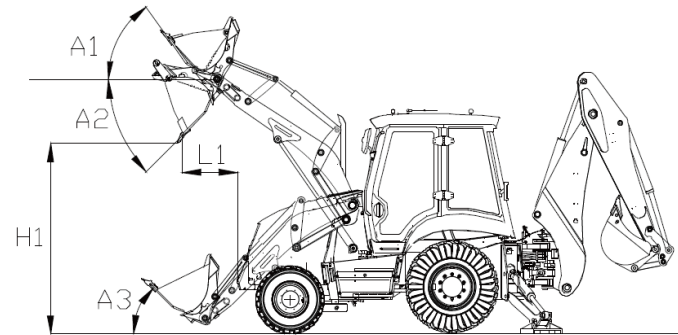
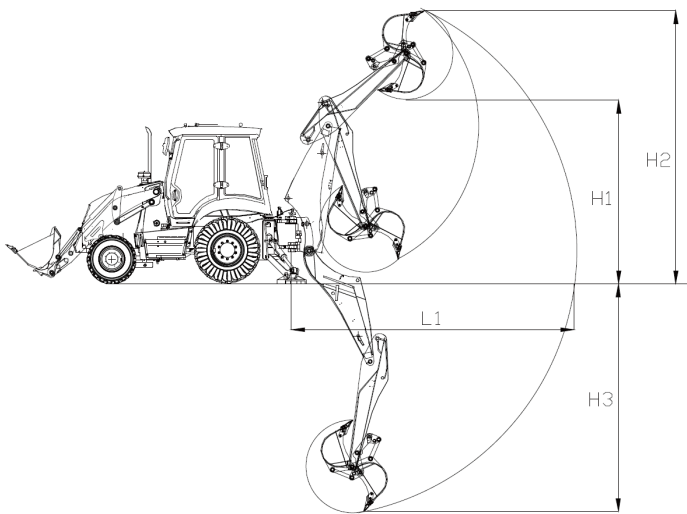
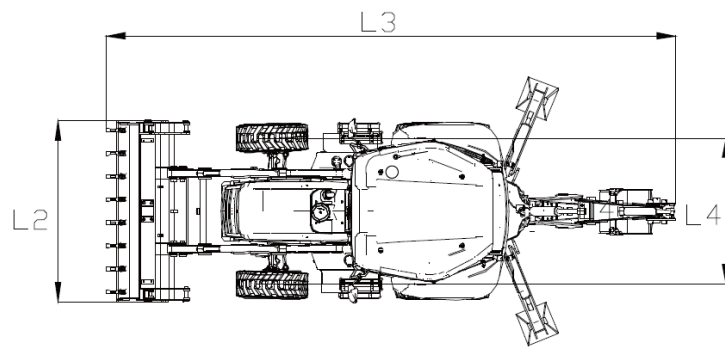
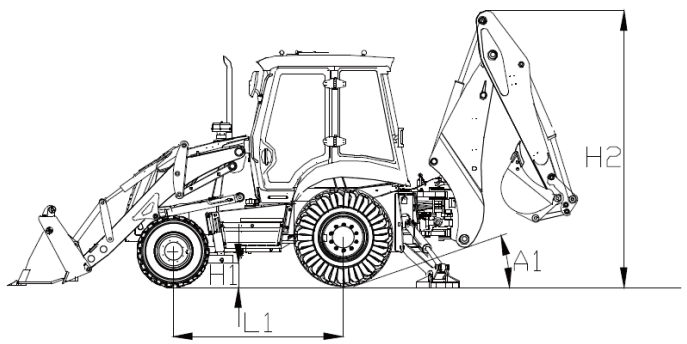


03Product Specification

FB878M

L3	Total Length, mm	7330
H2	Total height, mm	3500
L2	Shipping Width, mm	2420
H1	Min. Ground Clearance, mm	350
A1	Departure Angle, °	17
L1	Wheelbase, mm	2170
L4	Front Wheel Track, mm	1880
L4	Rear Wheel Track, mm	1730
H2	Max. Cutting Height, mm	5110

H1	Max. Dumping Height, mm	3450
H3	Max. Digging Depth, mm	4340
L1	Max. Excavating Radius, mm	5370
A3	Maximum Bucket Angle at Ground Level, °	45
A1	Maximum Lifting Position Maximum Bucket Angle, °	55
A2	Dumping Angle, °	45
H1	Dumping Height, mm	2710
L1	Dumping Distance, mm	770



WE AIM AT CUSTOMERS' SATISFACTION

Lovol Heavy Industry, a wholly state-owned subsidiary under WEICHAI Holding Group, was established in 2004. It currently possesses "three manufacturing bases and two innovation centers" .

Lovol Heavy Industry's business is one of the six core business segments of WEICHAI Group. Its products cover four main categories including excavators, loaders, off-highway mining trucks, and backhoe loaders. The R&D, production, and sales center of excavators, loaders, and backhoe loaders is located in Qingdao, covering an area of over 900 acres. The R&D and production center of off-highway mining trucks is located in Yangzhou, Jiangsu, covering an area of over 300 acres. Lovol Heavy Industry has gradually developed into a global leader in intelligent construction solutions by providing customers with intelligent products, equipment interconnection, intelligent construction, new energy products, and scenario solutions.



Official Website



Facebook

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Website:en.wlovol.com

Z20250627-5

Information of Lovol Heavy Industry Agents

- ⌚ As manufacturer, LOVOL has right to constantly upgrade and improve our products without informing to customers.
- ⌚ The pictures in literatures are for reference only, the detailed specifications are subject to real products.

LOVOL



Engine Model:
WEICHAI WP4G95E221

Rated Power:
70kW/2200rpm

Curb Weight:
8240kg

Loader Bucket Capacity:
1.0m³

Excavator Bucket Capacity:
0.18m³

FB878M

BACKHOE LOADER

Technical specifications and designs are subject to change without notice and additional equipment may be installed on the supplied machines.

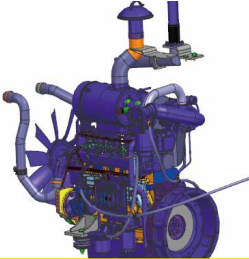
01

Product Introduction

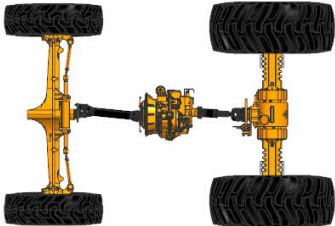
LOVOL

Core Configuration

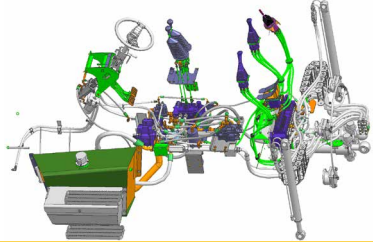
Weichai Tier II WP4.1 engine + Cararo electronic control box, wet brake axle + HUSCO load-sensing valve block.



Power System
Electronic Fuel Injection System
74kW
Rated Power
420N·m
Maximum Torque



Transmission System
Manual shifting, with 4 forward gears and 4 reverse gears. It features high input torque and high reliability.
The transmission system features helical gear drive, which ensures low noise and high transmission efficiency.
The system allows for independent switching between 2WD (two-wheel drive) and 4WD (four-wheel drive).



Hydraulic System
The hydraulic system features a Hengli load-sensing pump and a closed-center HUSCO multi-way valve with pressure compensation. This setup enables complex operations, which align well with excavating operation habits, thereby enhancing work efficiency. Both the loading end and the excavating end utilize pilot control, ensuring stable and comfortable operation.

Reinforced Machine Body,Efficient And Reliable.



Working Device

·For the loading end, standard buckets, four-in-one multifunctional buckets, and six-in-one multifunctional buckets are available as optional configurations.

·For the excavating end, standard booms and telescopic booms are available as optional configurations. The bucket capacities can also be customized and developed according to customer requirements. The excavator buckets have reinforced bucket bottoms for higher strength.

·The mechanical quick coupler for excavating allows for rapid switching between various attachments.

Iron Hood

·The full-iron machine cover structure features high strength and rigidity, as well as better performance in withstanding low and high temperatures. It adopts a streamlined back design, which further enhances the operator's field of vision.

·The machine cover can be opened by tilting forward as a whole, which increases the convenience of maintenance operations.

Special-purpose Frame

·The two-head-busy special-purpose chassis has been analyzed for structural strength and rigidity through CAE and verified by bump and fatigue tests, ensuring high reliability.

·The vehicle's side panels are made of single-piece plates with multiple bends, avoiding welding, which enhances structural strength.

02

Product Introduction

WE AIM AT CUSTOMERS' SATISFACTION

Safety Cab

Certified for a safe cab.



Appearance
The appearance of the backhoe loader cab adopts a large-space, all-glass design, offering a much wider field of vision.

Interior
The cab features a new black-and-gray color scheme, with interior materials that can withstand temperatures as low as -40 C. The pilot control box at the excavating end can be adjusted by 12° forward or backward to suit different operating habits.

Seat
The seat can be rotated freely by 180°, allowing the operator to quickly switch between excavating and loading operations.

03

Product Specification

FB878M

Overall machine parameters		
Rated Load Capacity, kg		2000
Operation Weight, kg		8240
Max. Traction Force, kN		80
Loading End Bucket Rod Cylinder Maximum Rising Force, kN		51
Max. Lift Force of Loading End Boom Cylinder, kN		38
Excavating Force of Bucket Cylinder at Excavating End, kN		40
Excavating Force of Excavating End Rod Cylinder, kN		34
Tipping Load, kg		50
Standard Bucket Capacity at Loading End, m³		1.0
Standard Bucket Capacity at Excavating End, m³		0.18

Engine		
Model		WEICHAI WP4G95E221
Engine Type	4-stroke, water-cooled, turbocharged and sequential air-cooled	
Emission Standard		Tier II
Engine Suction		Supercharge
Number of Cylinder-Bore, mm		4-105×130
Displacement, L		4.5
Rated Power, kW		70
Rated Speed, rpm		2200
Max. Torque, N·m		380

Transmission		
Transmission Brand		CARRARO
Type of Transmission	Carraro gearbox	
Type of Torque Converter	Single-stage single-phase fluid coupling	
Torque Multiplication Factor		2.64
Number of Gears		4 forward, 4 reverse
Max. Speed, km/h		32

Axle		
Drive Type		4WD
Front Axle	Steering axle	
Rear Axle		Wet axle
Wheel Reduction	Wheel hub reduction and main reducer	

Front Tire		
Tire Specifications		14-17.5-14PR
Tire Rating	14	
Tire Pressure, Mpa		0.52-0.58

Rear Tire		
Tire Specifications		19.5L-24
Tire Rating	12	
Tire Pressure, Mpa		0.23±0.03

Loading End Working Hydraulics		
Control Mode		Pilot Control
Working Hydraulic System Type	Load-sensing hydraulic system	
System Operating Pressure, Mpa		25
Working Pump Model	HP6V76	
Displacement, ml/r		76
Multi-way Valve Model	MX12-C18	
Boom Lifting Time, s		3.66
Total Time for Three Operations, s		8.2

Excavating End Working Hydraulics		
Control Mode		Pilot Control
Working Hydraulic System Type	Load-sensing hydraulic system	
System Operating Pressure, Mpa		25
Working Pump Model	HP6V76	
Displacement, ml/r		76
Multi-way Valve Model	MX18-G61	
Pilot Pressure, Mpa		4

Braking		
Service Braking		Dual pedal hydraulic brake assist
Parking Braking	Mechanical caliper disc parking brake	
Brake Pressure, Mpa		4.1-5.3

Oil		
Fuel Tank (geometric volume), L		120
Hydraulic Oil Tank (level gauge midline), L		100
Engine Oil, L		10
Transmission Oil, L		19.5
Front Axle, L		Main reducer ratio: 7.5, Wheel hub reduction ratio: 0.8×2
Rear Axle, L	Main reducer ratio: 15, Wheel hub reduction ratio: 1.5 × 2	
Antifreeze, L		14