

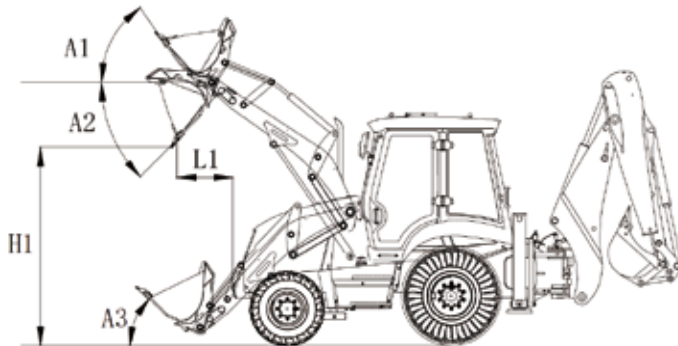
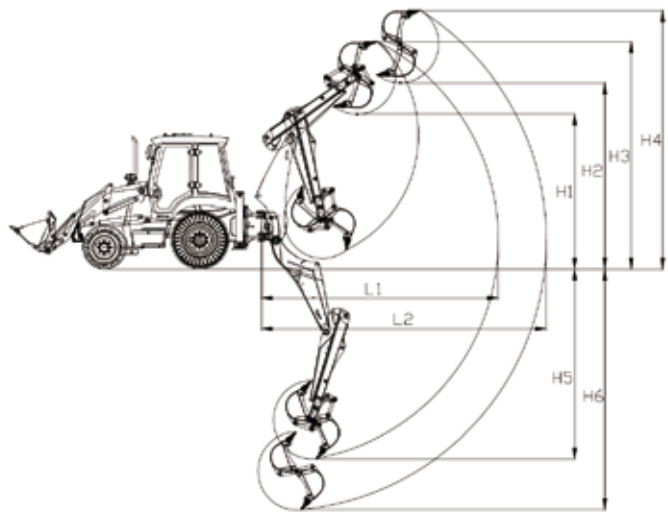
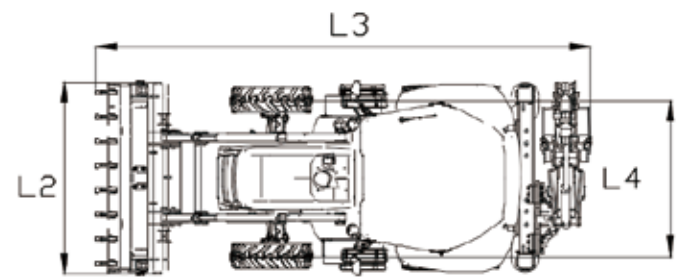
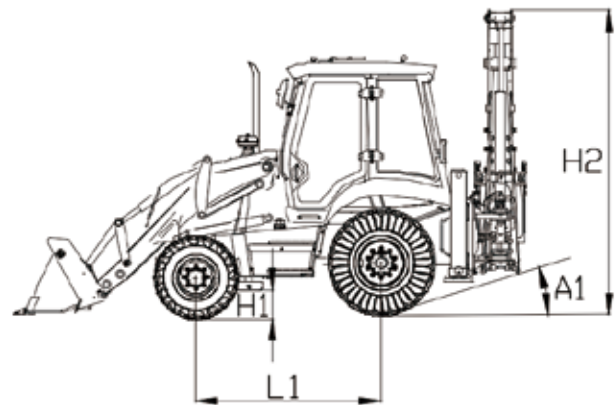
03

Product Specification



L3	Total Length, mm	6010
H2	Total height, mm	3500
L2	Shipping Width, mm	2470
H1	Min. Ground Clearance, mm	350
A1	Departure Angle, °	23
L1	Wheelbase, mm	2170
L4	Front Wheel Track, mm	1880
L4	Rear Wheel Track, mm	1730
H1	Max. Dump Height – Retracted, mm	3320
H2	Max. Dump Height – Extended, mm	4030

H3	Max. Cutting Height - Retracted, mm	5230
H4	Max. Reach Height - Extended, mm	5940
H5	Max. Digging Depth - Retracted, mm	4490
H6	Max. Digging Depth - Extended, mm	5640
L1	Max. Digging Radius - Retracted, mm	5510
L2	Max. Digging Radius - Extended, mm	6610
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	820



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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Z20250627-4

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:
|8750kg

|Loader Bucket Capacity:
|1.0m³

|Excavator Bucket Capacity:
|0.18m³

FB878H

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

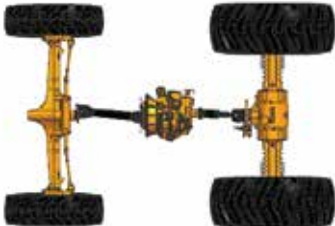
Electronic Fuel Injection System

74kW

Rated Power

380N·m

Maximum Torque

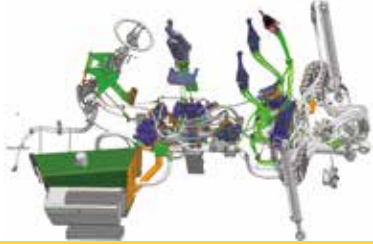


Transmission System

Electronically controlled 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 load-sensing pump, combined with the closed-center pressure-compensated HUSCO multi-way valve, enables compound actions. This design aligns more closely with the operating habits for excavating tasks, resulting in higher work efficiency. Both the loading and excavating ends utilize pilot control, which ensures stable operation and enhanced comfort.

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.



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.

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

03

Product Specification

FB878H

Overall machine parameters	
Rated Load Capacity, kg	2000
Operation Weight, kg	8750
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	0.2

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-C22
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-H88
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