

## TECHNICAL SPECIFICATIONS



### Engine

Engine Model	WEICHAJ 8M33
Number of Cylinders	8
Max. Torque/Speed	4450N·m/1300rpm
Displacement	26.1L



### Hydraulic system

Max. Main Pump Flow	300cc
Main Safety Valve Pressure	34.3MPa



### Main Performance

Bucket Digging Force	725kN
Arm Digging Force	663kN
Max. Traction Force	1031kN
Max. Walking Speed	3.03km/h
Min. Walking Speed	2.14km/h
Rotary Speed	5.1r/min
Gradeability	28.6°
Ground Pressure	153Ra



### Oil Capacity

Fuel Tank	1900L
Hydraulic Tank	1588L
Engine Oil	95L



### LOVOL HEAVY INDUSTRY GROUP CO., LTD.

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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.



Rated Power **680kW/1800rpm**  
 Operating Weight **145000kg**  
 Bucket Capacity **10m³**

**FR1500F**  
 EXCAVATOR



## RELIABILITY

**FR1500F is a large mining excavator tailored for the open-pit mining market**

Extra large body—150000kg

Super power—680kW

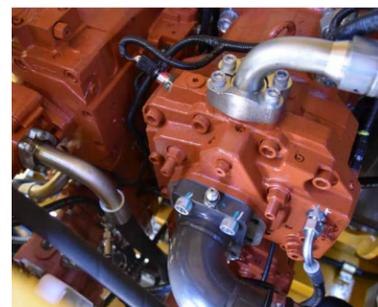
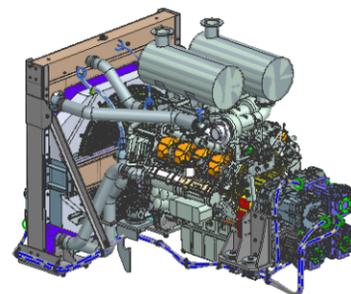
Extra large main pump—300cc/r

Ultra low fuel consumption—< 110-120L/h

Extra long warranty—5Y/10000h

### Electronic module

Borrowing the FR800F electronic control architecture, using a fully electronic control system, the main valve, handle, etc. are all controlled electrically, allowing for arbitrary handle characteristic curves to be obtained, correspondingly obtaining arbitrary valve core opening characteristic curves, enabling more precise control, lower fuel consumption, and higher efficiency; adding intelligent and informational functions.



## EFFICIENCY

### Higher thermal efficiency

Exclusive customized engine

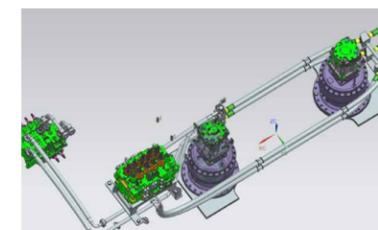
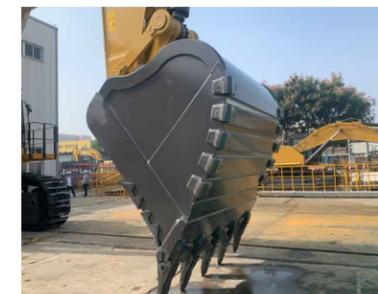
### Better matching

Gold hydraulic powertrain

### Better technology

Fully electronic control + closed rotary hydraulic system

### Larger capacity—10.0m<sup>3</sup>



The hydraulic system uses a closed-loop rotary system, which can achieve the recovery of rotary braking energy, reduce the load on the engine, and decouple from other actions on the vehicle for independent control, precise action, and higher efficiency.

## INTELLIGENCE



The newly developed Lovol intelligent operating system can realize power system management, intelligent interaction, automatic condition recognition, auxiliary operation, personalized customization and other functions; The whole vehicle adopts fully electric-controlling (including walking) control mode; The display screen adopts a 10.1-inch touch screen, equipped with bus air conditioning and bus radio functions; The vehicle power control adopts BCM for control, with built-in diagnosis and alarm, and convenient maintenance; 4 maintenance lights in the power cabin for convenient night maintenance.

### Intelligent vehicle control

After connecting the car Bluetooth with the driver's mobile phone, the driver can remotely control the excavator to power on/off, start/stop, turn on/off the air conditioning, turn on/off the lights, and also perform simple remote operations with the mobile phone.

### Intelligent multimedia

After connecting the car Bluetooth with the driver's phone, the driver can answer calls and play music through the display.

### Intelligent greetings

Open the cab, the interior reading lights and foot lights will be illuminated, and the logo of WEICHAÍ LOVOL is displayed on the bottom of the cab.

### Accompany you home

After the night driver has finished work and left the excavator, the work lights will be turned off with a delay, illuminating the driver's way home.



## COMFORT



The new interior, air duct and air outlet design, and increased storage space; improved and upgraded seats for higher comfort.

The air conditioning duct has undergone CFD analysis, resulting in lower wind resistance and lower noise, providing a cool and comfortable space for the driver, as well as more storage space to accommodate the driver's daily belongings.

The seat surface is widened for more comfortable ride; the SIP point is adjusted in three levels to meet different height requirements.

### Vehicle

It adopts the F generation cab, seat, armrest box, four-point fixed cab, armrest box with relative movement of the seat, newly developed cover and counter-weight, etc.

## INCREASE YOUR PRODUCTIVITY AND PROFIT WITH LOVOL ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of LOVOL Attachments. Each LOVOL Attachments is designed to fit the weight and horsepower of LOVOL Excavator for improved performance, safety, and stability.



Hydraulic Hammer



Scarifier



Standard Bucket



## STANDARD CONFIGURATION

### Engine

- Turbocharged, 6-cylinders, water-cooling, direct injection
- Radiator with protective fence
- Oil bath type cleaner
- Air intake heater
- Fan guard
- Double filters, dry air filter
- Engine oil pan with oil drain valve
- Automatic idle speed system
- Three-stage fuel filter
- 75A/24V alternator

### Cab

- Ashtray
- Cigarette lighter
- Seat belt
- Shade plate
- Storage compartment
- Emergency hammer
- Air conditioner
- Audio speaker
- Shock absorber
- Flexible aerial
- Radio
- Hydraulic safety locking rod
- Sun proof safety glass
- Cab floor mat
- Pull-up front window
- Dismountable lower windshield
- Sun shade window
- Windshield wiper
- Skylight window
- Suspended seat
- Big storage area

### Chassis

- Fixed chassis
- 750mm double tooth track plate

### Hydraulic System

- Automatic hydraulic system (flow confluence system)
- Multistage filtration system
- Anti-sway valve
- Boom and stick locking valve
- Cylinder buffer device
- Anti-slope turning device
- Waste oil drainage pipeline
- Pilot buffer valve (rotary, stick, boom)
- Dual-speed travel motor
- Hydraulic hammer pipeline

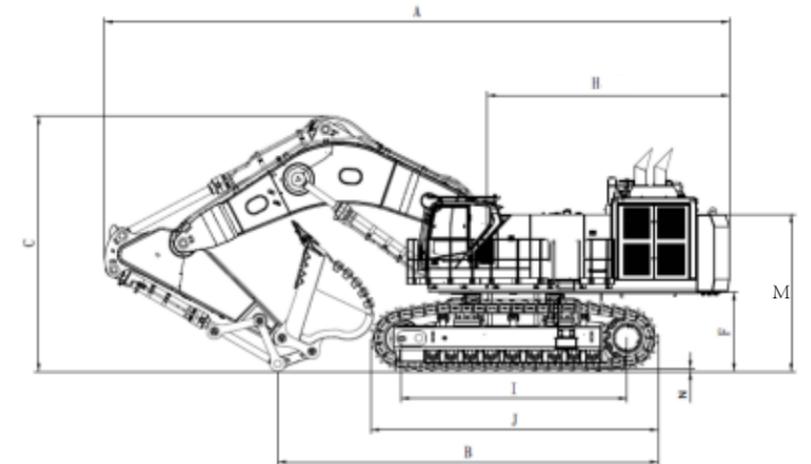
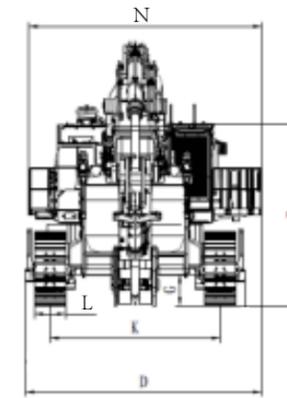
### Electronic Control System

- 24V power battery
- Monitor brightness adjustment
- Maintenance tips
- Safe stop & start function
- Master switch
- Engine start protection
- Multilingual display
- Cab ceiling light
- Diagnostic interface
- Emergency stop switch
- Automatic diagnosis system
- Automatic idle speed system
- One-touch pressure enhancement
- Anti-theft system

### Swing Platform

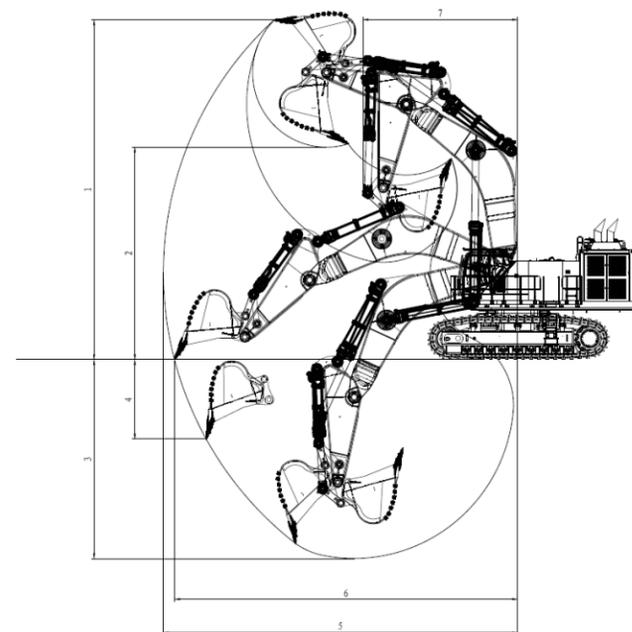
- Toolbox
- Large pedal
- Large handrail
- Bottom guard plate
- Anti-crash beams
- Anti-skid plates
- Passage with handrails

## TECHNICAL SPECIFICATIONS



### Working Range

Max. Digging Height	1	13309mm
Max. Dumping Height	2	8322mm
Max. Digging Depth	3	7797mm
Max. Vertical Digging Depth	4	3115mm
Max. Digging Radius	5	14011mm
Max. Ground Digging Radius	6	13557mm
Min. Turning Radius	7	6104mm



### Dimensions

Shipping Length	A	15600mm
Shipping Ground Length	B	9509mm
Boom Height	C	6215mm
Shipping Width	D	5690mm
Cab Height	E	4336mm
Ground Clearance of Counter Weight	F	1968mm
Min. Ground Clearance	G	882mm
Tail Turning Radius	H	5513mm
Wheel Tread	I	5660mm
Track Length	J	7210mm
Track Gauge	K	4100mm
Track Shoe Width	L	750mm
Hood Height	M	3890mm
Rotary Platform Width	N	5604mm

### Other Specifications

Boom Length	7600mm
Arm Length	3400mm
Track Section Number (each side)	47
Track Roller Number	9