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	FR1000F	
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А	Total Length, mm	13935
В	Grounding Length of Transport Attitude, mm	8500
С	Total Height, mm	4870
D	Shipping Width, mm	4472
Е	Cab Height, mm	3782
F	Ground Clearance of Counter Weight, mm	1695
G	Min. Ground Clearance, mm	920
н	Rear-end Swing Radius, mm	4950
1	Ground Contact Length of Crawler, mm	5090
J	Track Length, mm	6355

K	Track Gauge, mm	2790/3550	
L	Undercarriage Width, mm	3440/4200	
М	Std. track Shoe Width, mm	800	
Ρ	Rotary Platform Width, mm	4380	
1	Max. Cutting Height,mm	12672	
2	Max. Dumping Height,mm	8253	
3	Max. Digging Depth,mm	7010	
4	Max. Vertical Excavating Depth,mm	4370	
5	Max. Excavating Radius,mm	12509	
6	Max. Excavating Radius at Floor Level,mm	12177	
7	Min. Swing Radius,mm	4850	

# WE AIM AT CUSTOMERS' SATISFACTION

Lovol Heavy Industry, a wholly state-owned subsidiary under WEICHAI Holding Group, was Lovol Heavy Industry's business is one of the six core business segments of WEICHAI Group. Its

established in 2004. It currently possesses "three manufacturing bases and two innovation centers" . 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.









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Information of Lovol Heavy Industry Agents

Ø 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 HEAVY INDUSTRY GROUP CO., LTD.



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

# **Product Introduction**

## 

### **Golden Hydraulic Power Assembly** LOVOL Customized WEICHAI 6M33 Engine + 1-in-3 Transfer Case + Independent Oil/Hy-draulic Cooling System + WEICHAI 300cc Main Pump + Fully Electro-Hydraulic Control.



WEICHAI 6M33 Engine

**20L** Large displacement

### 3600N·m

Low-speed high-torque performance with minimal fuel consumption.

571kW High power

#### 1-to-3 power take-off case, with main pumps symmetrically distributed, featuring a compact structure and rational layout.



Large Displacement Main Pump

### 8.3% Compared to Competitors, the

Main Pump Displacement is Increased.

21° Adopting the plunger pack slipper and 21° swash plate technology, the structure is compact and the power density is high.



## 3000000

The main valve body is made of vermicular graphite cast iron material, which has better shock absorption and thermal conductivity. Small shrinkage tendency to avoid spool jamming.

Withstood 3 million cycles of ultra-high pressure endurance testing without cracking, ensuring reliable guality.

LOVOL



The newly developed Generation F cabin features a novel appearance and an overall layout that Generation F Cabin complies with ergonomic principles, enhancing visual experience, offering more storage space, and providing greater comfort for the operator.



Interior

upgrades for higher comfort.

**First-Class Working Space** The newly developed Lovol intelligent operating system can achieve power system management, intelligent task interaction, automatic working condition recognition, auxiliary operations, and personalized customization functions;

### **Easier Maintenance** 360° surround-view camera system enhances driving safety; Integrated fuel filter simplifies maintenance;

#### Large Cross-section Structure Design om And Stick

•The work device structure has been completely upgraded, with a lifespan of over 15,000 hours.

Optimize the hinge point of the boom and optimize the lock-up of the cylinder; Adopt large cross-section three-section structure design, the internal rib plate of the transition middle section with variable cross-section at the tail; Whole annealing treatment, stress 58%.

·Optimize the hinge point of the bucket rod to increase excavation force and optimize cylinder locking.

·Adopting a large cross-section structural design, with widened front and rear axle housings, thickened side plates, and increased cross-sectional area to enhance overall strength and rigidity.

FRIDDOF

### **Reinforced Machine Body Efficient And Reliable**

#### Large Capacity

al Bucket ·Standard configuration includes a 6.0

m<sup>3</sup> rock bucket: ·Adopting a large-capacity earthmoving-specific bucket with an optimized shape, the cutting resistance is reduced, and wear resistance is increased by 25%; •The front cutting edge is thickened to 100 mm and made of NM400 wear-resistant steel plate.

#### WE AIM AT CUSTOMERS' SATISFACTION

New interior, ductwork, and air outlet design, increased storage space; seat improvements and

Intelligent components such as a 10.1-inch touch screen display and one-key start switch.

New walkway design for easier access to the vehicle;

Standard electric grease gun significantly reduces maintenance workload.

#### Independent Water and Oil Coolers

·The machine features a reliable hydraulic-driven fan whose speed can vary according to temperature changes

·The system utilizes hydraulic pumps and hydraulic motors for driving, which offers higher reliability.

•The reversible hydraulic motor allows the fan to blow in reverse, which helps to clear dust and debris from the radiator. This prevents clogging and maintains high cooling efficiency.

#### **Reinforced Rotating Platform**

·The rotating platform uses a heavy-duty structure, reducing stress by more than 40%. ·Platform structure upgraded, with increased spacing between the main beam and arm, significantly enhancing load-bearing capacity.

#### Sturdy And Durable assis Structur

·The chassis uses a split-type mining-specific chassis, with 100-ton class four wheels and one track;

·Split-type bolted lower carriage with double-supported idlers;

·The heat treatment process of track roller and crawlers has been upgraded, and the wear resistance has been improved by 50%.



J.	Main Parameters		
	Operating Weight, kg	101000	
	Travel Speed, km/h	3.5/2.4	
	Swing Speed, r/min	5.6	
	Boom Length, mm	7250	
	Arm Length, mm	2925	
	Bucket Breakout Force, kN	501	
	Arm Crowd Force, kN	451	
	Max. Tracking Force, kN	618.3	
	Grade Ability 35, %	70	
	Ground Pressure, kPa	111.8	

#### Engine Manufacturer WEICHAI Model 6M33 Number of Cylinders 6 Aspirating Method Turbocharged Intercooler 19.6 Displacement, L Max. Torque, N·m/rpm 3600/1300-1500 Rated Power, kW/rpm 571/1800 Engine Oil Oil Capacity, I 68 **Fuel Tank** Capacity, L 1260 Platform Module

Side-mounted With Tail

Type

岗				
O	Hydraulic Module			
	Main Pump			
	Brand		WEICHAI	
	Model		HPR300L	
	Max. Flow, L/min		1085.7	
	Main Pump Type	2 independent varia piston pumps + sep		
	Main Valve			
	Brand		WEICHAI	
	Model		OCV36E	
	Maximum Flow, L/min		550*2	
	Swin Motor			
	Brand		WEICHAI	
	Model		HMF249	
	Overflow Pressure, Mpa		29	
	Travel Motor			
	Brand		KYB	
	Model		GR190H	
	Overflow Pressure, Mpa		36.8	
	Main Safety Valve Press	sure, Mpa	35	
	Hydraulic Oil Tank			
	Capacity, L		840	

🕒 Chassis Module	
Туре	H-frame track switching system
Track	
Track Shoe Width, mm	650
Track Roller	
Quantity (one side)	9



