



Rated Power
Operating Weight
Bucket Capacity

44.4kW/2100rpm
7650kg
0.3m³

FR80E₂

EXCAVATOR



ENERGY-SAVING

LOVOL Customized Engine

Equipped with original YANMAR engine which is imported from Japan, the fuel injection system is perfectly matched with electric control system, it provides optimal fuel utilization to machine. The advanced fuel filter, oil filter and air filter can provide great protection to engine.

Efficient Hydraulic System

Hydraulic system adopts load-sensing hydraulic control system which is optimized by LOVOL Japan Engineering Center, it has excellent controllability and can adapt various applications.

Advanced Technology and Optimal Machine Performance

Adopts electronic- control main pump which can intelligently adjust the power matching between the main pump and the engine according to the loading changes, the fuel is dramatically saved while assuring high efficiency.



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RELIABILITY

Superb Match

The key parts of the power system, hydraulic system and electronic control system are specially customized to achieve perfect matching and compatibility with one another, which deliver maximum reliability and longer service life.

Core Components

Relying on the R&D system of LOVOL Japan Engineering Center, LOVOL has established a solid partnership with world-renowned companies to continuously optimize and improve the quality and service life of our key components. Industry leading components are used on our machines including engine, pump, valve, motor, oil cylinder, controller and forth.

Reinforced Working Device

The front & rear support of boom and front support of arm are made of cast steel, which effectively reduces concentration of stress and increases the service life dramatically. The arm is also reinforced to improve the durability.



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COMFORT



Large Spacious Cab

Equipped with spacious cab which provides operator large space to operate machine. The premium suspension seat with armrests is very comfortable and it can reduce the working fatigue dramatically. Big LCD screen is easy to read all data and to operate when working. Air conditioning is added for maximum comfort.

Ergonomic Design

The proportional joystick delivers sensitivity, accuracy and smoothness during operation. This joystick is specially designed to meet different operating conditions. Intelligent control system is standard which could control diverse attachments such as bucket, hammer, scarifier and hydraulic scissors.

Low Noise and Low Vibration

In order to reduce work fatigue and improve productivity, the noise inside of cab has been controlled to the lowest level. The cab is attached to the frame with buffer that dampens vibrations and sound levels to enhance operator comfort.

SERVICEABILITY



Engine hood and panels

The large engine hood increases maintenance space for operator to check and maintain the engine. The tool box is big with big opening angle which can put grease bucket and special tools easily. One key can open all locks of machine, it is very convenient for operator.

Electric and hydraulic parts

Pressure sensor is used on the main pump which can monitor hydraulic system's pressure when working. Centralized lubrication makes convenient and easy maintenance to slewing bearing, and the radiator is optimized for easy cleaning. These configurations make routine maintenance easy and convenient.

Filters and maintenance period

All the filters are fixed at ground level, it is very convenient to do routine maintenance. The maintenance interval is also extended to save time and cost.





INCREASE YOUR PRODUCTIVITY AND PROFIT WITH LOVOL ATTACHMNTS

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.



Log Grapple



Trenching Bucket



Hydraulic Rammer



Quick Coupler



Hydraulic Hammer



Standard Bucket



STANDARD CONFIGURATION

Engine

4-stroke water-cooled direct injection
Radiator with protective fence
Air Pre-filter
Air intake heater
Fan guard

Hydraulic System

Automatic hydraulic system (flow confluence system)
Multistage filtration system
Cylinder buffer device
Auxiliary hydraulic valve
Dual-speed travel motor
Anti-slope turning device
Waste oil drainage pipeline
Hydraulic oil regeneration

Electronic Control System

12V power battery
Monitor brightness adjustment
Maintenance tips
Safe stop & start function
Master switch
Engine start protection
Multilingual display
Cab ceiling light
Automatic diagnosis system
Automatic idle speed system

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
Cup holder

Swing Platform

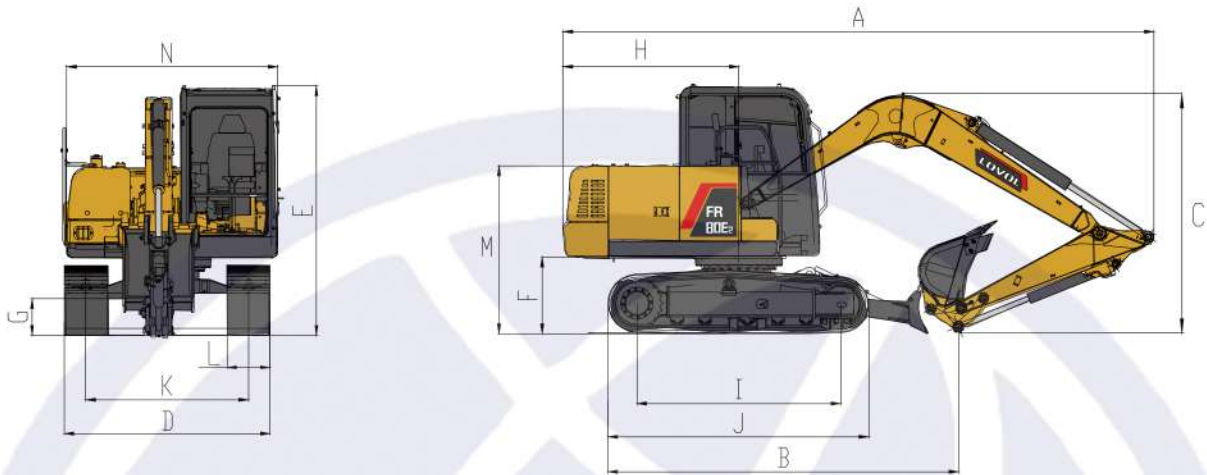
Toolbox
Large pedal
Large handrail
Bottom guard plate

Chassis

Fixed chassis
450mm triple tooth track plate



TECHNICAL SPECIFICATIONS



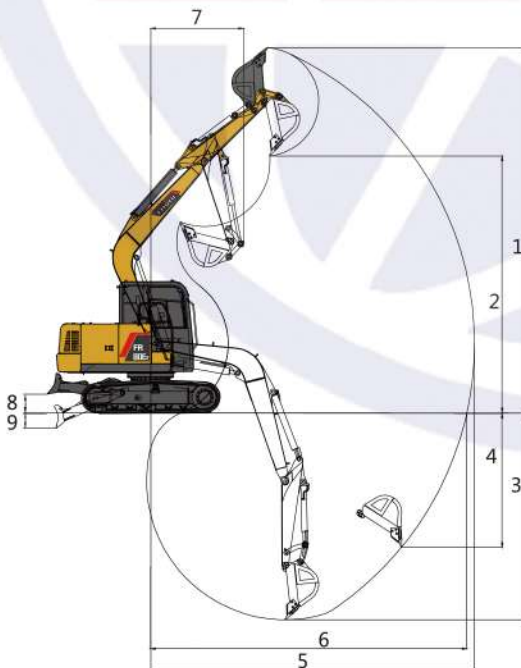
Working Range

Max. Digging Height	1	7150mm
Max. Dumping Height	2	5030mm
Max. Digging Depth	3	4050mm
Max. Vertical Digging Depth	4	3670mm
Max. Digging Radius	5	6335mm
Max. Ground Digging Radius	6	6190mm
Min. Turning Radius	7	1770mm
Dozer Blade Lifting Height	8	375mm
Dozer Blade Falling Height	9	295mm



Dimensions

Shipping Length	A	6100mm
Shipping Ground Length	B	3665mm
Boom Height	C	2575mm
Shipping Width	D	2275mm
Cab Height	E	2650mm
Ground Clearance of Counter Weight	F	820mm
Min. Ground Clearance	G	378mm
Tail Turning Radius	H	1830mm
Wheel Tread	I	2130mm
Track Length	J	2770mm
Track Gauge	K	1700mm
Track Shoe Width	L	450mm
Hood Height	M	1750mm
Rotary Platform Width	N	2275mm



Other Specifications

Boom Length	3708mm
Arm Length	1650mm
Track Section Number (each side)	38
Track Roller Number	5
Dozer Blade Height	425mm



TECHNICAL SPECIFICATIONS



Engine

Engine Model	YANMAR 4TNV98
Number of Cylinders	4
Max. Torque/Speed	237N·m/1400rpm
Displacement	3.32L



Hydraulic system

Max. Main Pump Flow	144L/min
Main Safety Valve Pressure	28MPa



Main Performance

Bucket Digging Force	56kN
Arm Digging Force	38kN
Max. Traction Force	61kN
Max. Walking Speed	4.3km/h
Min. Walking Speed	2.7km/h
Rotary Speed	11.5r/min
Gradeability	35°
Ground Pressure	35.1kPa



Oil Capacity

Fuel Tank	160L
Hydraulic Tank	100L
Engine Oil	5-9.4L

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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.