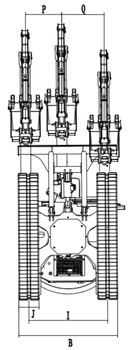
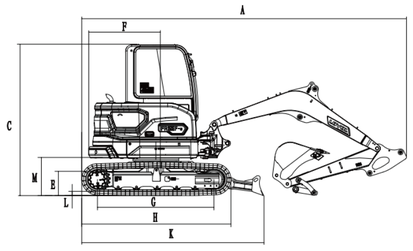
# 03 Product Specification

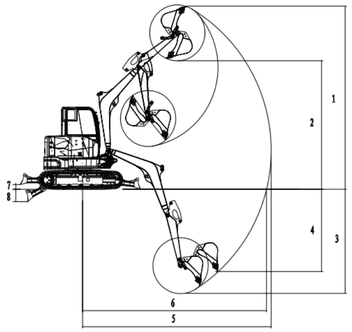
FR55F-u

| | | |
|---|---|---|
| A | Overall Length In Transport Position, mm | 5500 |
| B | Overall Width In Transport Position, mm | 1960 |
| C | Overall Height In Transport Position, mm | 2560 |
| D | Bulldozer Height, mm | 325 |
| B | Dozer Blade Length, mm | 1960 |
| E | Ground Clearance of Chassis, mm | 310 |
| F | Rear-end Swing Radius, mm | 1065 |

| | | |
|---|---|---|
| G | Wheel Base, mm | 1990 |
| H | Track Length, mm | 2500 |
| I | Track Gauge, mm | 1560 |
| J | Track Width, mm | 400 |
| K | Shipping Ground Length, mm | 3068 |
| L | Track Link Height, mm | / |
| M | Ground Clearance of Counter Weight, mm | 628 |




| | | |
|---|---|---|
| 1 | Max. Cutting Height, mm | 5720 |
| 2 | Max. Dumping Height, mm | 4015 |
| 3 | Max. Digging Depth, mm | 3370 |
| 4 | Max. Vertical Excavating Depth, mm | 2630 |
| 5 | Max. Excavating Radius, mm | 6160 |
| 6 | Max. Excavating Radius at Floor Level, mm | 6020 |
| 7 | Dozer Blade Lift Height, mm | 440 |
| 8 | Dozer Blade Lowering Depth, mm | 410 |

# 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


Z20250328-2

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:
KUBOTA V2607

Rated Power:
35.5kW/2200rpm

Total Machine Weight:
5750kg

Standard Bucket Capacity:
0.18m³

# FR55F-u EXCAVATOR

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

# 01 Product Introduction

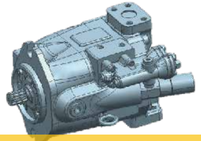
LOVOL

## Core Configuration

Japanese imported engine and the Linde hydraulic system adjusted by Lovol feature high efficiency, large flow rate and excellent matching.

### Kubota Engine V2607-CR-E5

Japanese imported engine, with strong performance, high reliability, low noise, and more fuel-efficient.



### Large Displacement Main Pump

The Linde main pump features a large displacement and high efficiency. It is manufactured by Weichai, which is part of the same group as Lovol, ensuring strong independent service capabilities.

### Linde Main Valve

The Linde main valve enables precise distribution - it can allocate an appropriate flow rate according to the load requirements.

The main control valve core, exclusively customized for Lovol, ensures even more accurate micro-manipulation.

## Reinforced Machine Body Efficient And Reliable


### Injection-Molded Fuel Tank

·Make full use of the space, featuring a compact structure.
·Have a large capacity and high cleanliness, with the oil ports exposed for convenient refueling.

### Large Capacity Earthmoving Special Bucket

·Tailless rotating platform design, with a smaller turning radius.
·Boom side-shift device, allowing independent left and right side movement.
·Optional steel tracks and rubber tracks, offering stronger adaptability to various working conditions.
·More suitable for operations in tight spaces.

### Large Cross-section Structure Design For Boom And Stick

·Key parts such as the boom fork, rear seat, and side shift frame are made of cast steel.
·The boom rear seat is a forked casting which facilitates the routing of hydraulic lines and reduces wear.
·The boom features a hollow box structure with high-strength steel plates combined with cast steel, offering higher reliability.
·The critical parts of the arm and bucket are made of NM400 wear-resistant steel plates, increasing lifespan by 30% compared to ordinary materials.

### Tailless Rotating Platform

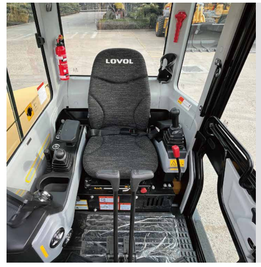
·Tailless rotating platform design, with a smaller rotation radius.
·Boom swing device, allowing independent left and right side shifts.
·Optional steel tracks or rubber tracks, offering stronger adaptability to various working conditions.
·More suitable for operations in confined environments.

# 02 Product Introduction

WE AIM AT CUSTOMERS' SATISFACTION

## Generation F Cabin

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




**Interior**
The cab meets FOPS/TOPS standards and CE certification requirements, ensuring safety and compliance with European regulations.
It features a brand new exterior design that is proportionate, elegant, and high-end.

**Comfortable control**
One-touch start, integrated throttle knob, and quick function buttons.
7-inch full touch screen LCD instrument panel with clear display and smart, convenient operation.
TYPE-C/USB charging ports, additional cup holders, and armrests for increased comfort.
New interior layout designed according to ergonomics for a comfortable ride.
High backrest with flippable back for enhanced comfort.

**Easier Maintenance**
The rear engine cover is easy to open, facilitating maintenance and servicing of the engine compartment.
Equipped with a three-stage maintenance filter, effectively protecting the engine and extending its service life.

# 03 Product Specification

FR55F-u

### Main Performance

| | |
|---|---|
| Operating Weight, kg | 5750 |
| Travel Speed, km/h | 4.5/2.4 |
| Swing Speed, r/min | 10.6 |
| Boom Length, mm | 2780 |
| Arm Length, mm | 1635 |
| Bucket Breakout Force, kN | 42.3 |
| Arm Crowd Force, kN | 26.4 |
| Max. Tracking Force, kN | 51 |
| Grade Ability 35, % | 70 |
| Ground Pressure, kPa | 32.5 |

### Engine

| | |
|---|---|
| **Engine** | |
| Engine Manufacturer | KUBOTA |
| Engine Model | V2607 |
| Engine Cylinder Number | 4 |
| Engine Intake Form | Self-priming |
| Engine Emissions, L | 2.615 |
| Max. Engine Torque, N·m/rpm | 174.1/1500 |
| Rated Speed, rpm | 2200 |
| Rated Power, kW | 35.5 |
| **Engine Oil** | |
| Engine Oil Volume, L | 10.2 |
| **Fuel Tank** | |
| Fuel Tank Capacity, L | 60 |

### Platform

| | |
|---|---|
| Platform Form | Tail-less and Front-mounted |

### Hydraulic

| | |
|---|---|
| **Main Pump** | |
| Main Pump Manufacturer | LINDE |
| Main Pump Model | HPR80 |
| Max. Main Pump Flow, L/min | 167.2 |
| Main Pump Type | Variable plunger pump |
| **Main Valve** | |
| Main Valve Manufacturer | LINDE |
| Main Valve Model | LSC18 |
| Number of Main Valve | 1 |
| Main Valve Type | Hydraulic control |
| Max. Allowable Flow Rate, L/min | 180 |
| **Rotary Motor** | |
| Rotary Motor Manufacturer | Linde |
| Rotary Motor Model | GS02H |
| Number of Rotary Motors | 1 |
| Overflow Pressure of Rotary Motor, Mpa | 21.6 |
| **Walking Motor** | |
| Manufacturer of Walking Motor | LINDE |
| Model of Walking Motor | GR07H |
| Number of Walking Motor | 2 |
| Overflow Pressure of Walking Motor, Mpa | 28 |
| **Main Safety Valve Pressure, Mpa** | 28 |
| **Hydraulic Oil Tank** | |
| Hydraulic Tank, L | 60 |

### Chassis

| | |
|---|---|
| Base Frame Form | Fixed track, X-frame |
| **Track** | |
| Track Width | 400 |
| Track Section Number (each side) | 40 |
| Supporting Wheels | |
| Number of Supporting Wheels On One Side | 5 |