

TECHNICAL SPECIFICATIONS



Engine

Engine Model	WEICHAI WP10.5H
Number of Cylinders	6
Max. Torque/Speed	1470N·m/(1200-1600)rpm
Displacement	9.5L



Main Performance

Bucket Digging Force	245kN
Arm Digging Force	214kN
Max. Traction Force	306kN
Max. Walking Speed	5.1km/h
Min. Walking Speed	3.1km/h
Rotary Speed	8.5r/min
Gradeability	70°
Ground Pressure	67kPa



Hydraulic system

Max. Main Pump Flow	2*357L/min
Main Safety Valve Pressure	34.3MPa



Oil Capacity

Fuel Tank	630L
Hydraulic Tank	265L
Engine Oil	39.5L



Rated Power
Operating Weight
Bucket Capacity

247kW/2000rpm
41500kg
2.2m³

FR420F
EXCAVATOR



RELIABILITY

Weichai high-end H platform engine, the life of up to 30,000 hours.

the rotary platform adopts the heavy-load structure, the stress is reduced by more than 40%, the chassis adopts the mine special chassis, 45-ton four-wheel area.

The platform architecture is upgraded, the main boom installation spacing is increased, and the carrying capacity is greatly improved;

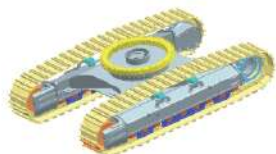
The main plate is thickened, and the working stress is reduced by more than 40%;

Cancel the adjustment pad to avoid the loosening or fracture of the installation bolt caused by the sliding of the adjustment pad.

The reinforced four wheel area, the carrier roller adopts double support structure;

The rotary support modulus is changed from 14 to 16;

The heat treatment process of crawler components is upgraded, and the wear resistance is improved by 60%.



EFFICIENCY

Using Weichai powertrain technology, the operating efficiency of the whole machine is increased by 15% compared with the generation E, and the fuel efficiency is increased by more than 20%.

Engine thermal efficiency leads the industry;
The minimum fuel consumption is 180g / kWh.

Large displacement displacement, low rotation speed;
Large torque, and high power. Power increased to 247KW; torque, increased to 1470N · m.

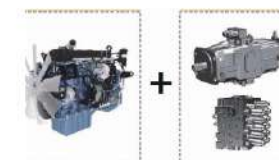
Large displacement main pump, the main pump displacement increased by 12.5%.

Using plunger pack sliding boots, 21° swing angle technology, compact structure, high power density

Double variable cylinder accurate inclined plate control, good consistency, faster response speed, the main pump displacement output accuracy is higher, accurate output of the required flow.

The large flow main valve is adopted, the valve core diameter increases by 21.4%, and the flow capacity of the main valve is increased by 50L / min.

Linde exclusive custom tuning, internal flow channel optimization, smaller pressure loss, better response.



INTELLIGENCE



LOVOL's new smart OS covers functions of power system management, smart interaction, automatic identification to working condition, aided operation personalized service, etc.

Smart control

After the driver uses the mobile phone to connect the car Bluetooth, he can remotely control the excavator to power on/off, start/turn off, turn on/off the air conditioning, turn on/off the light, and also realize simple remote work on the mobile phone.

Intelligent multimedia

After the driver uses the mobile phone to connect the car Bluetooth, he can answer calls and play music through the panel.

Intelligent fuse box

The traditional safety box is upgraded into an intelligent power management module BCM, which has automatic protection and intelligent recovery functions.

COMFORT



Driving meets the ROPS regulatory requirements, and driving is safer.

The new structure is upgraded to meet the 50 ton ROPS regulation, which is safer.

Panoramic skylight, breaking through the common sense of conventional construction machinery.

New air duct and outlet design, and bigger storage space.

After CFD analysis, the air conditioning duct has lower wind resistance, lower noise, and the optimized outlet location provides a cool and comfortable space for the driver in the hot summer.

More storage space can accommodate the driver's daily trivial items, providing a cleaner driving environment.

Upgraded seat with standard rear-view camera.

Wider seat surface is more comfortable; SIP points are adjusted at three different levels to meet different height requirements.

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.



Quick Coupler



Hydraulic Shear



Hydraulic Hammer



Scarifier



Standard Bucket



STANDARD CONFIGURATION

Engine

Turbocharged, 6-cylinders, water-cooling, direct injection
Radiator with protective fence
Air Pre-filter
Air intake heater
Fan guard
Double filters, dry air filter
Engine oil pan with oil drain valve
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
Floating seat

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
Hydraulic hammer pipeline
Pilot buffer valve (rotary, stick, boom)

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

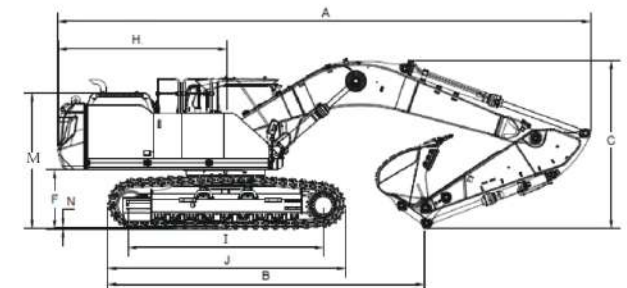
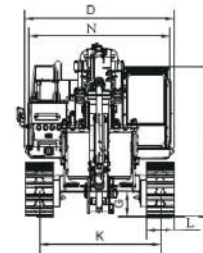
Swing Platform

Toolbox
Large pedal
Large handrail
Bottom guard plate
Anti-crash beams
Anti-skid plates
Passage with handrails
Cab protection device
Spare parts box

Chassis

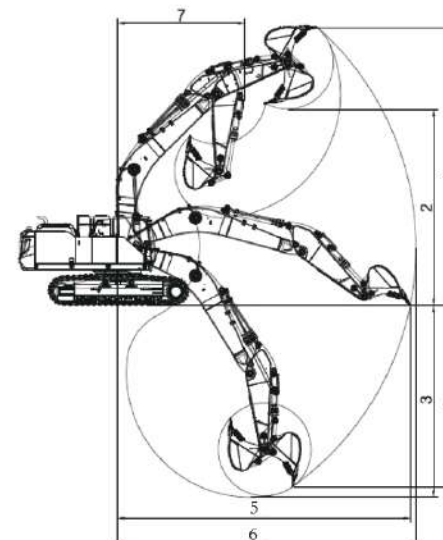
Fixed chassis
600mm triple tooth track plate

TECHNICAL SPECIFICATIONS



Working Range

Max. Digging Height	1	10055mm
Max. Dumping Height	2	7090mm
Max. Digging Depth	3	6940mm
Max. Vertical Digging Depth	4	4661mm
Max. Digging Radius	5	10580mm
Max. Ground Digging Radius	6	10790mm
Min. Turning Radius	7	4430mm



Dimensions

Shipping Length	A	11350mm
Shipping Ground Length	B	6840mm
Boom Height	C	3648mm
Shipping Width	D	3340mm
Cab Height	E	3322mm
Ground Clearance of Counter Weight	F	1299mm
Min. Ground Clearance	G	588.5mm
Tail Turning Radius	H	3610mm
Wheel Tread	I	4320mm
Track Length	J	5390mm
Track Gauge	K	2740mm
Track Shoe Width	L	600mm
Hood Height	M	2723mm
Rotary Platform Width	N	3025mm



Other Specifications

Boom Length	6500mm
Arm Length	2800mm
Track Section Number (each side)	51
Track Roller Number	9