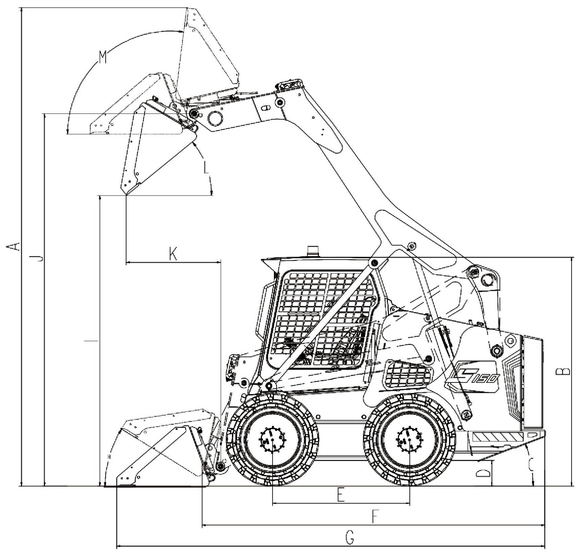

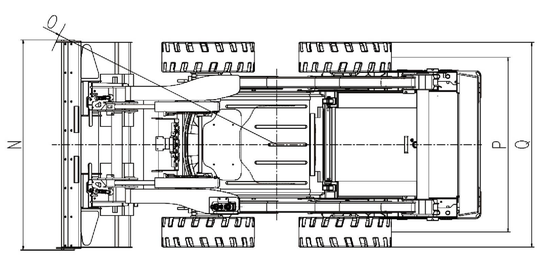

S150 Performance Parameters

Basic parameters	
Machine Weight	4850 kg
Bucket capacity	0.5 m^3
Bucket width	1880 mm
Technical Specification	
Battery	Lithium Iron Phosphate
Rated power	32/3180+4×10/3410 kW/rpm
Battery capacity	105 kW·h
Rated Operating Load	1620 kg
Tipping Load	3250 kg
System working pressure	23（0~+0.5）Mpa
Flow Rate	87.1+51.1 L/min
Increase maximum digging force	25 kN
Tipping	24.5 kN
Max. travel speed(low gear/ high gear)	10/20 km/h
Fast charge	1.3 hour Charging from 30% to 80%
Endurance*	9~10 h
Drive System	
4-Wheel independent direct driving by electric motor	
Operating parameter	
A Overall operating height	4280 mm
B Height to top of cab	2065 mm
C Dumping angle at maximum height	21.5°
D Ground clearance	207 mm
E Wheelbase	1227 mm
F Overall length without standard bucket	3066 mm
G Overall length with standard bucket	3830 mm
H Maximum angle of flat ground	31°
I Unloading height	2610 mm
J Height to bucket hinge pin	3335 mm
K Loading distance at Max. unloading height	845 mm
L Dumping angle at maximum height	41°
M Rollback of bucket at full height	98°
N Bucket width	1880 mm
O Radius of gyration	2179 mm
P Track width	1507 mm
Q Machine width	1832 mm

Specifications are subject to change without prior notice .

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YUCHAI

Electric Skid Steer Loader

Lithium Iron Battery :105 kW·h

Standard endurance: 9~10h | 30 % → 80 % in 1.3 hours
Machine Weight: 4850 kg | Max.traveling speed : 10/20 km/h
Overall dimensions (L x W x H): 3830mm x 1832mm x 2065 mm

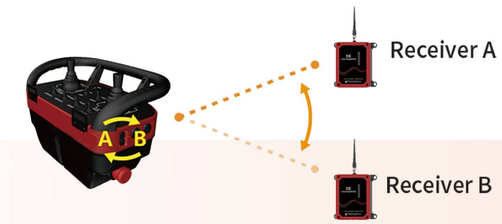
S150

Yuchai – S150 Electric skid Steer Loader

The Yuchai S150 is a pure electric skid steer loader specially designed for environmentally sensitive areas such as cities and parks. It is equipped with a high-efficiency electric drive system and a compact and flexible structural design. It not only achieves "zero emissions and low noise" environmental protection operations, but also has outstanding advantages such as multi-functionality, easy operation, and low maintenance costs. It is an ideal equipment for various application scenarios such as urban construction, municipal maintenance, agriculture and industry.

Zero Emissions, Low Noise

The S150 features a pure electric drive design. During operation, it eliminates the roar of diesel engines and unpleasant odors, with significantly lower noise levels. For agricultural users, especially those in the livestock farming users, this machine creates a more comfortable environment for both operators and animals.



Remote Control Technology(Optional)
Local remote control (handheld or shoulder-mounted controller) allows operation within a **500-meter** range of the machine.

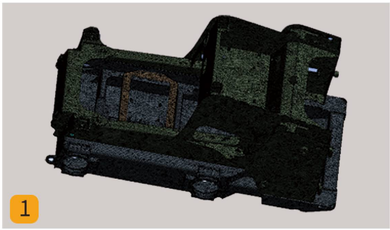
All-New Dedicated Electric Platform

Developed from the ground up on an electric platform, it features an integrated layout for the battery pack, motor, and electronic control system. While accommodating a high-capacity battery (105 KW·h), it optimizes the overall center of gravity distribution, enhancing stability and maneuverability.

The adoption of dedicated motors and transmission systems ensures precise power output matching for loader operating conditions (e.g., heavy loads, slope climbing), delivering higher efficiency,helping you stay ahead of the competition.

1 Wheel-Side Drive Technology

Yuchai pioneers wheel-side drive technology in compact construction machinery, featuring independent controllers and motors for each wheel. This enables separate control of hydraulic and travel systems with non-interfering power distribution. Torque remains consistent regardless of rotational speed, delivering robust power even at low speeds. Finite-element-optimized wheel-side electric drive + H-type chassis structure delivers greater stability and efficiency, boosting performance and enabling the machine to reach its full potential!



Wheel side motor driving

2 Wheel-End Parking Technology

The **S150** features integrated wheel-end parking functionality (**AUTO HOLD**). Combining mechanical brake discs with wheel-side motors, it provides dual parking modes with automatic hold capability. When stationary with the travel direction set to neutral, the brake automatically engages, enabling operators to work more safely.

3 Ramp Control & Protection System - RCPS

- Hill start Assist(HSA)
- Automatic HillHold (AHH)
- Overtemperature Protection

4 Multi-Functional Machine

One machine with multiple uses, compatible with various attachments, meeting the application requirements of multiple scenarios.

High-Capacity LFP Battery

Via its inverter, the machine transforms into a large power bank capable of 220V/10A output to support various electric tools. With 5,000 charge cycles (equivalent to 16 years of service) and ≤6% performance degradation over 8 years, its intelligent overload protection safeguards the battery/motor system. Yuchai further backs the battery with a 5-year warranty, eliminating traditional engine reliability concerns.

Stable and Reliable Battery, Motor & Control System

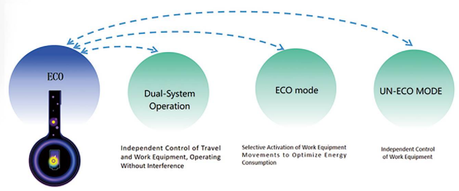
The S150 shares identical battery and electronic control systems with Yuchai's S150 skid steer loader. Its supply chain leverages top-tier enterprises from China's EV industry. Having undergone rigorous long-term testing in China's demanding operational environments, the electrical systems of both S150 loaders and S150 skid steer loader have proven their stability and reliability.

Yuchai– S150 Electric Skid Steer Loader

90% Lower Operating Costs Than Conventional Fuel-Powered Models

By adopting a pure electric direct-drive design, the S150 eliminates traditional engine + gearbox transmission systems. With 2,000 operating hours, its combined operating and maintenance costs are 90% lower than diesel equivalents (calculation based on China's electricity and fuel prices).

AC/220V



AC Charging Station

Comprehensive Energy Management:
ECO Intelligent Power-Saving Technology.

Convenient and Rapid Charging

The S150 offers dual charging options: 220V/16A (standard) and 380V/32A (rapid charging, optional), with charge ports configurable to European, American, or Chinese standards. In standard mode, replenishing power requires only connection to mains electricity. When using rapid charging equipment, **it achieves 30%-80% SOC recharge in just 1.3 hour.**

Premium Cab
Where safety meets comfort

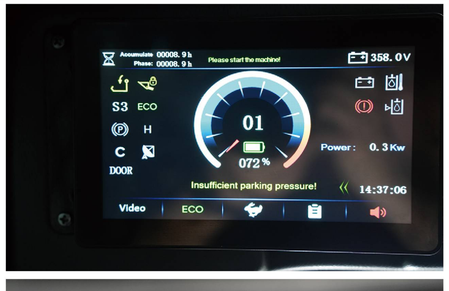
Ergonomically Engineered Canopy

- Based on extensive feedback from European users, the Seat Index Point (SIP) has been precisely calibrated to ensure optimal driving comfort.

- The FOPS/TOPS/ROPS canopy ensures the driver's safety.
- Fully enclosed cab for dust and noise isolation.
- Electric proportional joysticks.
- Bluetooth connectivity.
- Air conditioning and heating system.
- Rear camera with ultra-wide view ensures safe operation.
- Shock-absorbing seat provides comfort and reduces fatigue during 8-hour shifts.
- 7-inch high-definition smart color touchscreen integrating display, settings, alarms, and control functions Shows sensor status and fault codes for easy troubleshooting, More user-friendly interface with higher intelligence and operational convenience.

Color LCD display

Concise user interface



Rear camera(Optional)

Wide and comfortable foot space

Left/right joysticks

Comfort and safe work

Simplified Maintenance Design

- The S150 incorporates a large-opening maintenance design, allowing access to the power and equipment compartments in just a few simple steps. This provides direct access to batteries, controllers, pumps, and motors, making machine maintenance simpler and more time-efficient. A major advantage of electric machinery is significantly reduced overall maintenance compared to diesel-engine machines.
- Unique cab tilt design provides easy access to major components forsimplified maintenance.

Chassis & Safety Systems

- The entire vehicle is made of high-strength structural steel, which has strong impact resistance and is more suitable for harsh working conditions.

  The battery pack features multiple safety protections: dust-proof, water-proof, short-circuit-proof, and impact-proof, meeting the IP67 standard.

  The automatic braking system and operation locking device enhance operational safety.

Maintenance advantages compared to diesel engines

- More than 40% reduced maintenance work.
- No regular oil changes/filter replacements.
- Reduced downtime，Significantly lower operating costs.

Safety extensions

Automatic braking system (AUTO HOLD)

Actuation lock against unintended use

Electronic fence(optional):

Effectively reminds of avoidance and ensures construction safety.

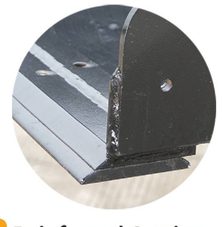
Rear camera(optional):

Enhances the driver's field of vision and sense of security.

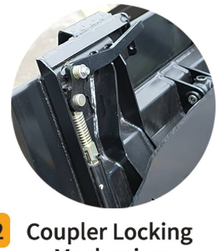
Intelligent diagnosis system:

Fault information can be read through the display screen for precise and rapid maintenance.

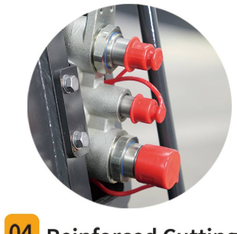
02 Quick Coupler Plate



03 Reinforced Cutting Edge



02 Coupler Locking Mechanism

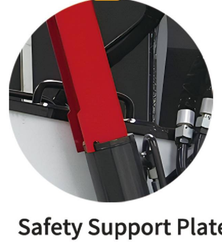


04 Reinforced Cutting Edge

05 Rear camera (optional)

06 Gear Oil Filler Port

07 Position light (LED) (optional)



08 Safety Support Plate

09 Lifting Holes (4 pcs)

Equipment

- Standards and requirements for special equipment vary by country.
- For more details on equipment options, please feel free to contact us.

Component Part	Description	Standard	Optional
Drive system	Wheel side motor Drive	•	
	Wheel side AUTO HOLD	•	
	Three operation modes: ISO mode, D mode and foot pedal mode	•	
Cabin/Canopy	Fully Enclosed Cabin with glass and door	•	
	ROPS	•	
	Intelligent Touch Screen	•	
	Adjustable Shock-Absorbing Seat	•	
	Pilot Control Handle	•	
	Air Conditioner	•	
	foot pedal operation	•	
Safety protection	High-Strength Steel Body	•	
	Safety Lever Protection	•	
	Door Sensor Protection	•	
	Emergency Stop Device	•	
	Operation Locking Device	•	
	Ramp Protection	•	
	Active Safety	•	
	In-Line Warning Light		•
	Reverse Alarm Device	•	
	Rear Camera	•	
	IP67 Battery Armor (Anti-Collision/Waterproof/Dustproof)	•	
	Battery Protection	•	
	VTL External Discharge Detection	•	
	Charging Detection	•	
	Insulation Detection	•	
Battery system	Large Capacity Battery (105kWh)	•	
	Energy Recovery System	•	
	Standard Charger (slow charging cable)	•	
	Fast Charger		•
Remote control	Remote Control System		•
	GPS		•
Lighting	LED Work Light	•	
Options	Quick Change Device	•	
	Standard Bucket	•	
	Fork		•
	Industrial Grapple		•
	Angle Sweeper		•
	Closed Sweeper		•
	Drill Tool		•
	Snow Blower		•
	Other attachments or custom attachments		•

Attachments

The perfect attachment for every job.

- Turn your machine into a true all-rounder.
- The right attachment transforms your machine into a powerful, versatile solution for any task.