

# Terminalift Wheel Loader

(Fully Electric)

## TL-WL5E

### Innovations

1. Independently developed special load positive flow control system with variable speed, global power matching, on-demand oil supply, reducing throttling and overflow loss.

2. The travelling system adopts independently developed motor -pump/ motor - reducer, compound control of speed and torque, active prediction of load torque and direct control of torque, with strong power and low energy consumption.

3. Multi-motor coordinated control, reasonable matching of motor load, optimized energy management, efficient operation; time-sharing, automatic idle stop, reducing energy consumption of the motor and pump at idle.

4. 540V high voltage solution, reducing electric current; high efficiency permanent magnet synchronous motor, intelligent door drive variable speed control, low heat generation, 20% energy saved than asynchronous motor.

5. Renewable power generation for various negative loads, energy recovery based on power lithium batteries, improving energy efficiency of the whole machine.



### Features

- Zero emission, zero pollution, low noise.

- Low use cost. The electricity consumption cost of pure electric construction machinery is about 30% of the fuel cost of traditional construction machinery.

- Low maintenance cost. No need for regular maintenance for the diesel engine, such as replacing the engine oil and three filters, etc.

- High battery safety, no risk of spontaneous combustion / deflagration

- The lifespan of the battery is more than 8-year. The recycle lifespan of lithium iron phosphate battery under 1C is more than 4000 times.

- Optimized energy management, excellent energy utilization efficiency and endurance, together with high-volume lithium iron phosphate battery, 7 to 9 working hours after full-charging can be guaranteed with large capacity lithium battery.

# TERMINALIFT

## Performance parameter

	Performance	Parameter
Basic parameters	Electric Consumption Rate	Varies with working condition
	Loading Rate	1600kg
	Bucket Capacity	0.9m <sup>3</sup>
	Up digging Force	47KN
	Operating Weight	5200kg
	Max. Dumping Height	2450mm
	Dumping Distance 45°Angle	850mm
Transmission System	Transmission	Mechanical Transmission
	Transmission Gear	1 Front 2 /Rear 1
	Max. Speed of Forward I	10km/h
	Max. Speed of Forward II	32km/h
	Max. Speed of Rear I	10km/h
	Grade ability	57%
Parameter of Travel Motor	Traction	55kN
	Motor Type	Permanent magnet synchronous motor
	Motor Rated	45kW
Parameter of Main Pump Motor	Motor operating efficiency range	86%-98%
	Motor Type	Permanent magnet synchronous motor
	Motor Rated	30kW
Battery	Motor operating efficiency range	86%-98%
	Type	LiFePO
	Battery rated storage capacity	109.3Kwh
	Rated Capacity of Battery	202AH
	Rated Voltage	541 V
	Rounds of full charge and discharge cycles	More than 4000 times
	Theoretical Service Life	Over 8 years
	Charge time	Varies with the Charger
Hydraulic system	Pressure	25 MPa
	Flow Rate	150 L/min
	Raising Time	5s
	Total cycle time	10s
Steering system	Steering gear Model	BZZ5-E315C
	Pressure	16 MPa
	Steering Type	Articulated frame steering
Brake Mode	Steering Angle	35°
	Travel brake	Clamp disc brake
	brake air pressure	0.5-0.7 MPa
Basic dimensions	Parking Brake	Air push oil disc brake
	Overall Height	2800mm
	Overall Width	1920mm
	Overall Length	6000mm
	Wheel base	2240mm
	Wheel Tread	1482mm
	Bucket width	2000mm
	Ground Clearance	290mm
	Turning Radius (External)	≥4970mm
Driver position	Central	
Driver seat	Sited	
Standard Tires (Pneumatically)	Number of Wheels	F2/R2
	Driving Wheel	4 wheel Drive
	Size of Tire	16/70-20PR

# TERMINA

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