

Features

Truck	Standard	Options
Lithium battery 347.76V/173Ah	●	
DPS system	●	
Electric power-assisted synchronous steering system	●	
Vacuum assisted hydraulic brake	●	
Standard traction pin	●	
Rear pneumatic tire	●	
Lithium battery 309.12V/228Ah- 328.44V/268Ah		○
Traction pin height solution		○
Rear vacuum tire		○
Cab		
Standard seat	●	
Steering wheel adjustable device	●	
USB+ Type C socket	●	
Boarding handle	●	
Cab		○
Suspension seat		○
Controls and instruments		
Multi-functional combined instrument	●	
Electric horn	●	
Safety		
Automatic fire extinguishing system	●	
Reversing buzzer	●	
Fire extinguisher	●	
Lights		
LED Head lamp [high beam head lamp and dipped head lamp]	●	
Daytime Running Lamp	●	
Steering signal light	●	
LED rear work lamp assembly	●	
Alarm light		○
Other		
Tool box	●	
Charger		○



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ISO 45001:2018



ISO 14001:2015



ISO 9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.



INNOVATIVE LITHIUM-ION



X SERIES

ELECTRICAL LUGGAGE TRACTOR

With capacity of 25,000 to 32,000kg

X SERIES ELECTRICAL LUGGAGE TRACTOR

In the airport ground support system, as a core equipment connecting the terminal building and aircraft, the performance and safety of the luggage tractor directly affect the operational efficiency and service quality of the airport. The new - generation high - voltage lithium - ion airport luggage tractor of Hangcha, with the design core of "safety and reliability, energy - saving and high - efficiency, human - oriented operation, and the integration of aesthetics and function", creates a practical and forward - looking ground support solution for modern airports.



APPEARANCE & ERGONOMICS

- The design is simple and elegant, combining the beauty of strength.
- Modern aesthetic color - matching scheme.
- The steering wheel has an adjustable angle and a telescopic structure with adjustable height.
- 7 - inch large - screen multifunctional color instrument.
- Rear - view mirror with a wide field of vision.
- Passenger - side dual boarding handle.

COMFORT

- Full-floating seat with strong shock absorption performance and good comfort.
- Low-noise drive axle.
- Small-diameter steering wheel, easy to operate.



- High-efficiency and elastic shock-absorbing suspension, enhancing the overall comfort of the vehicle.
- Second-level pedal, facilitating getting on and off the vehicle.



RELIABILITY

- Automotive - grade electric system.
- High-performance lithium iron phosphate battery.
- Durable 24V battery from an international first - tier brand.
- Electric power steering system as standard.
- Adopt a safe and reliable mechanical parking braking system.
- Overall frame electrophoretic coating + powder coating, offering strong corrosion resistance.
- Disc Brake Steering Axle, strong weather resistance, easy maintenance.



Standard - equipped with high - quality Grammer seats



Lights, switches, etc. meet automotive standards



Tires from first - tier brands



SAFETY

- Speed reduction when turning.
- OPS as standard.
- Tire pressure monitoring.
- The electrical system of the whole vehicle has an IP55 protection level, and the whole vehicle has an IPX5 protection level.



MAINTENANCE

- It is not necessary to remove the counterweight when maintaining the motor and electronic control system.
- Integrated low - voltage control box.
- Customized user manual and parts catalog for each unit to ensure worry - free operation and easy parts query.
- The battery box can be replaced as a whole by hoisting.



Large - angle hood for easy maintenance



Both the front and rear wheels can be equipped with Vacuum tires, making maintenance convenient

ENERGY & EFFICIENT

- Automotive - grade high - voltage platform, with high operation conversion efficiency and fast charging speed.
- Hangcha energy - saving technology.
- Lithium - battery + motor + electronic - control multi - in - one thermal management system.
- Straight-grooved low resistance vacuum tires.



HANGCHA provides Li-ion battery (LiFePO4) with 8 years or 16000 hours warranty.



8 YEARS WARRANTY

LITHIUM POWERED

EMPOWER YOURSELF
WITH THE BEST



Li
Lithium

POWER THE POSSIBILITIES
RELIABLE LITHIUM-ION TECHNOLOGY

LITHIUM BATTERY ADVANTAGES



Long service life

3200 full charging cycles with at least 75% residual capacity.



Return on investment

Add flexibility to your operation, cost-saving in the long term, increased efficiencies.



Maintenance free

No topping up of water or checking acid levels.



High energy density

The high energy density of the Li-Ion battery ensures long working times and increases the high availability.



Cold area application

Li-Ion batteries maintain high performance at temperatures below freezing.



High safety and reliability

Intelligent battery management monitoring every important function, no emission of battery gasses.



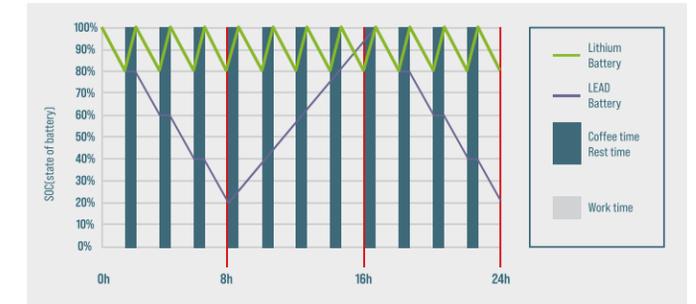
Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

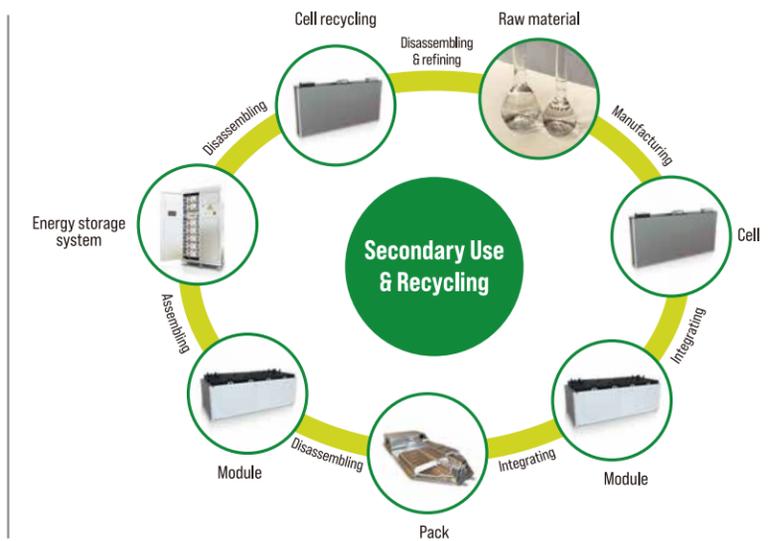
Efficiency

By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.



Safety

- / Intelligent battery management monitoring every important function.
- / Higher user safety, thanks to acid-free use.
- / User friendly due to avoided battery change.
- / No emission of battery gasses.



QUESTION 1

Q: What are the characteristics of lithium batteries, especially when used in high and low temperature environments?

Charging temperature: (Battery thermal management system)	-30 C - 60 C
Discharge temperature:	-30 C - 60 C
Storage environment temperature:	-40 C - 60 C

After the truck key switch is closed, the instrument battery condition needs to be checked:

1. Confirm that there is no battery system alarm message on the instrument panel.
2. Please check the remaining power before use. It is recommended to use the SOC between 50% and 100%.
3. If the SOC is lower than 20%, it is not recommended to continue using it. Please charge it as soon as possible.

QUESTION 2

Q: What is the charging time and usage time calculation of lithium battery?

1. Available power of lithium battery (kWh) = rated voltage * rated power * 90% (To avoid over-discharge damaging the battery, the is equipped with low power protection [less than 20%]).
 2. Charging time (h) = rated capacity of lithium battery (Ah) * 90% + charger output current (A).
 3. The power consumed for charging (kWh) = the available power of the lithium battery * 93% (the charging efficiency of the charger is calculated as 93%).
 4. Usage time (h) = available power of lithium battery + energy consumption data.
- For specific energy consumption values, please refer to the technical table on the sharing platform.**

QUESTION 3

Q: How does Hangcha BMS work to ensure the safety of the lithium battery?

HANGCHA BMS (battery management system) can monitor the cells at all times. As a result, hangcha lithium power is the reliable solution.



Battery Safety Management:

- Overcharge/over discharge protection
- Overcurrent/over-temperature/low-temperature protection
- Multi-level fault diagnosis protection
- Double fault monitoring



Battery Parameter Detection:

- Battery voltage detection and analysis
- Battery current detection and analysis
- Battery temperature detection and analysis



Equilibrium Management:

- Equalization based on voltage mode
- Equalization based on time mode
- Equalization based on battery cell SOC
- Active/passive equalization optional



Other Features:

- Low cost, low power consumption
- Historical data record
- Flexible cascade expansion
- CRC data validation