

## Features

Truck	Standard	Options
Lithium iron phosphate battery	●	
Large integral rubber pedal pads	●	
High-power AC drive system	●	
Fully hydraulic steering system	●	
Vacuum assisted hydraulic braking (35-60t)	●	
Standard traction pin	●	
Dual drive tyres (90t)	●	
OPS		○
Traction pin height scheme		○
Dual drive tyres (70/80t)		○
Solid tyre		○
Non-mark white solid tyre		○
<b>Cab</b>		
Boarding handle	●	
Steering wheel adjusting device	●	
Standard seat	●	
Front wiper	●	
Reflective mirror	●	
Fully enclosed cab	●	
Sunshade	●	
Semi-enclosed cab		○
Heater		○
Suspended seat		○
USB interface		○
No cab		○
Air conditioner		○
Wiper with water spray		○
<b>Controls and instruments</b>		
Multi-function instrument cluster	●	
Electric horn	●	
Fault indicator	●	
Jog switch	●	
Integrated electrical box	●	
Charge prompt	●	
Reversing video		○
Monitoring equipment		○
Speed limit		○
<b>Safety</b>		
Reverse buzzer	●	
Air-over-Hydraulic Braking (70-90t) System	●	
Fire extinguisher		○
Remote braking and signal output (70-90t)		○
<b>Lights</b>		
LED headlights (high-beam and low-beam)	●	
Turn signal lights	●	
Combination real LED operating light	●	
Ceiling light	●	
<b>Other</b>		
Battery charger		○

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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.



# X SERIES

HIGH VOLTAGE LITHIUM BATTERY  
TOW TRACTOR

With capacity of 35,000 to 90,000kg

# X SERIES

## HIGH VOLTAGE LITHIUM BATTERY TOW TRACTOR

### RUGGED ON THE OUTSIDE

With a streamlined integral steel structure, a vivid stylish profile formed by a combination of large arcs and streamlined curved surfaces and a centered driving position, the vehicle is suitable for pushing operations.

### ENVIRONMENTAL PROTECTION



- Silence, no pollution, energy saving and other advantages meet the environmental protection requirements.
- Asbestos-free materials are used for the vehicle.



HANGCHA provides Li-ion battery (LiFePO4) with 6 years or 12000 hours warranty.

HIGH-VOLTAGE

# 100kWh

Battery capacity

# DESIGNED AROUND THE DRIVER

## SAFETY

- Electric Vacuum Assisted Braking (35-60t) \ Air-over-Hydraulic Braking (70-90t) System: The double-chamber and double-pipeline all-wheel braking systems with front and rear proportional partial pressure control performs safe, stable and reliable braking. The large-capacity vacuum cylinder designed can reliably assist braking to enable higher safety when the vehicle is not powered.
- ELECTRICAL MAIN SWITCH: With the electrical main switch to perform emergency shut-off and ensure the safety of the vehicle.
- DUAL-SOURCE STEERING PUMP MOTOR: The dual-source steering pump motor adopted ensures good high-low voltage performance, and safe and reliable steering.
- DOUBLE SAFETY HOOK OPERATION: The pull rod is equipped with a safety device to prevent mis-operation of the pull rod, simple but reliable and highly safe.



Remote braking and signal output (70-90t) with the rear flatbed truck also equipped with braking and lighting warning, the safe of the towed train is enhanced.

## COMFORT

- The wide-view cab with an integral frame constituted by profiled steel pipes is flexibly connected to the body and has good sealing, sound insulation, vibration isolation and heat insulation, etc., so that the driver's comfort is improved. The large operating space and low boarding steps allow the operator to very easily get on and off the vehicle.



- With the human-machine interaction system that consists of compact and reliable novel digital multi-functional instruments and a combination rocker switch, the operations of the vehicle can be shown clearly.
- The entire cab is fully suspended, with good sealing and less vibration, plus a suspended seat for great operating comfort.
- The chassis elastic suspension technology and the long wheelbase design enable a great ride comfort.
- The forward and backward inclination angles of the hand wheel is adjustable and the seat can be adjusted by 150mm backwards and forwards, so that the operator can choose the best driving position.

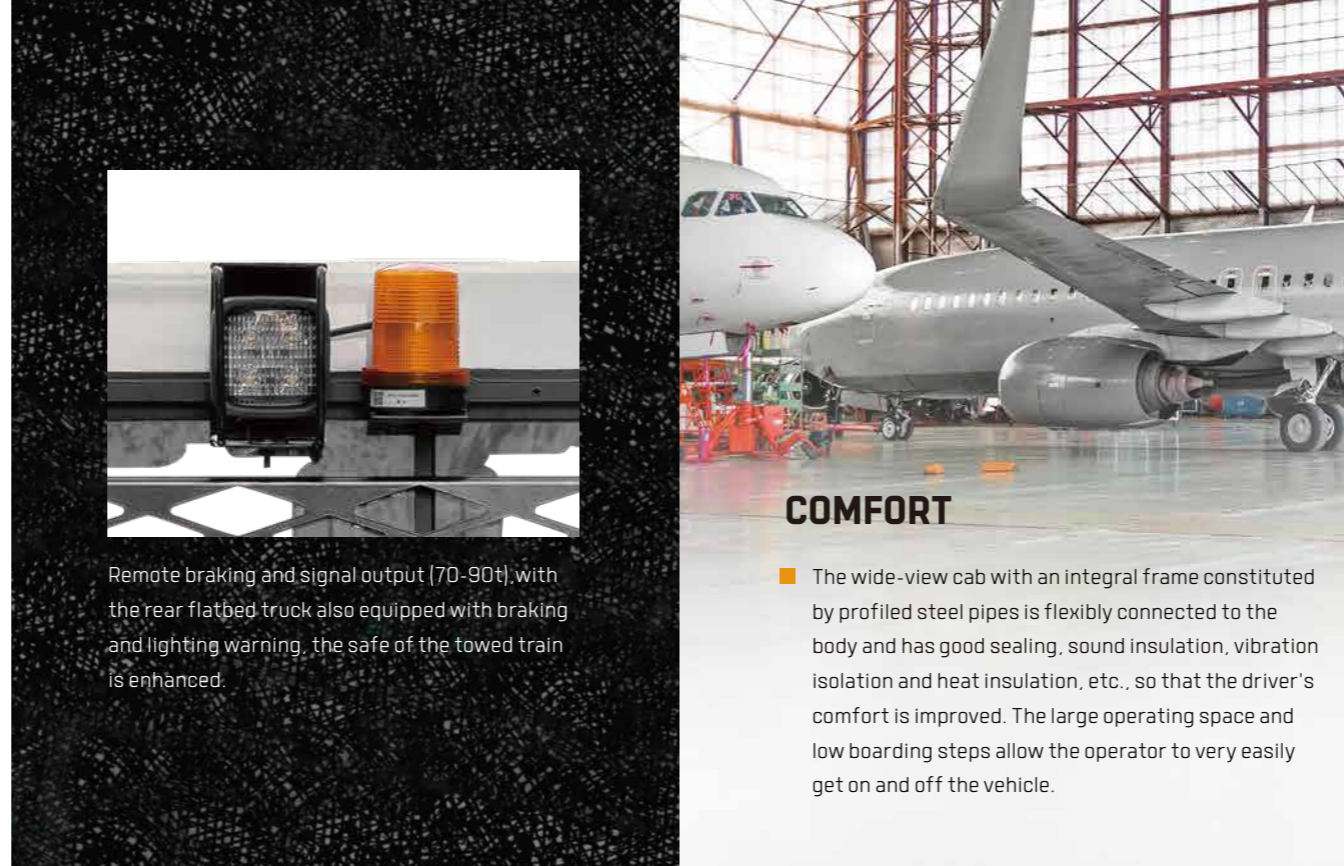


The water resistance level of the vehicle is IPX5. Key parts (for electric control, etc.) are placed in the high position of the vehicle body to prevent road surface water from entering and ensure strong wading ability, safety and reliability.

## HIGH-VOLTAGE PERMANENT MAGNET SYNCHRONOUS CONTROL SYSTEM:

Ensures stable and accurate driving, good performance of electronic control matching the motor, and with the functions.

- |                         |                        |                   |
|-------------------------|------------------------|-------------------|
| 1 Stable starting       | 2 Regenerative braking | 3 Reverse braking |
| 4 Anti-sliding on ramps | 5 Energy-saving        | 6 Highly safe     |



The permanent magnet synchronous power system provides strong power and has more precise speed regulation performance, making the complete appliance very efficient.

RATED CAPACITY

**90**  
TONNE

TRAVEL SPEED

**32**  
KM/H



## MAINTAINABILITY

- The electric components such as the electric controller, contactor, instruments and accelerators are all renowned brands and have high reliability.
- An permanent magnet synchronous power system is used for driving and steering, and the motor is maintenance-free.
- The wide-opened front hood, the easy-to-dismount electric controller hood plate, etc. make maintenance and commissioning very convenient.
- The easy-to-dismount electric controller hood plate and the rear hood plate make the maintenance and commissioning of drive and electric control very convenient.



## ADVANCEMENT

- High-efficiency power system and high-performance lithium iron phosphate battery: The lithium battery is installed horizontally.
- The LED-screen instruments have the functions of battery display, timer and fault self-diagnosis, without a handheld unit, maintenance and changing of the vehicle performance can be completed through the instruments. Faults are indicated in the form of a combination of codes and text, which are clearer and easier to read.
- There are operating switches at the rear of the vehicle: front and rear Micro-switches and an emergency shut-off switch.



- For the standard feature, the vehicle is equipped with LED lights and integrated high-beam and low-beam headlights.



The electric parts of the vehicle are designed to be waterproof and forced water cooling is provided for electric control, where the functions of heat dissipation, ventilation, dust resistance and water resistance.

