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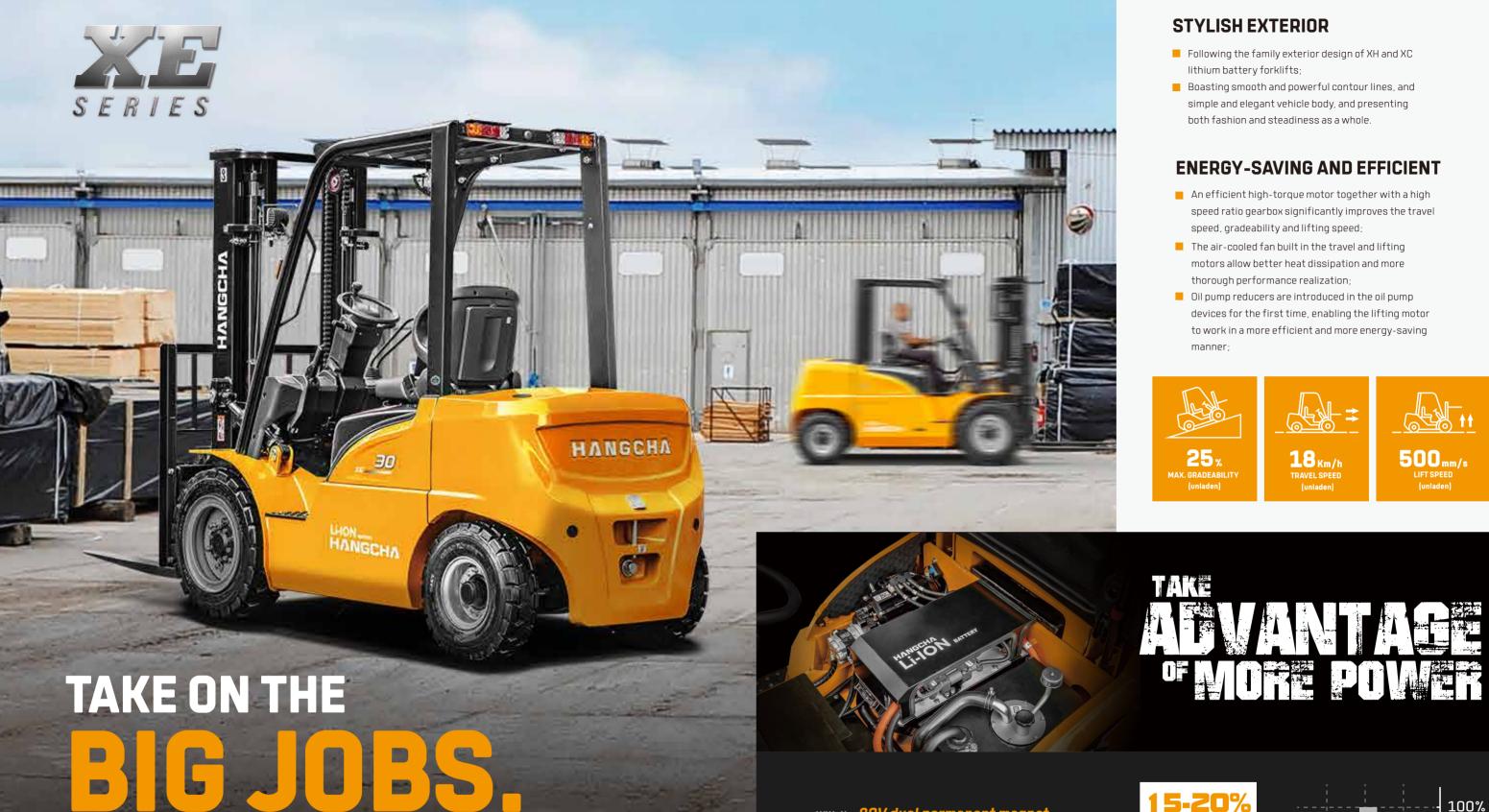












Following the family design of electric forklifts, they are provided with some key parts

capacity in a bid to meet customers' use scenarios of internal combustion forklifts. The

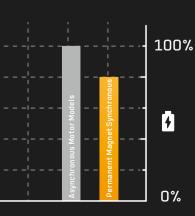
enhanced model is capable of meeting the application demand of users in heavy-duty

working conditions.

compatible with internal combustion forklifts, and optimized mainly on the overall performance, ergonomics, reliability, maintenance, outdoor operation ability and load

With the **80V dual permanent magnet synchronous motor system** with higher power density, as well the highly fitted speed reducer, motors and electrical control, under the same operating conditions, compared with the traditional asynchronous motor model, the energy consumption is reduced by 15%-20%.







COMFORTABLE EXPERIENCE

- With the advantages of lithium battery forklifts, this ergonomically designed forklift enables a wide view and a large operation space.
- The optional electronic handbrake allows more comfortable driving experience.
- The color-screen instruments are designed to have clear and intuitive graphic interfaces.



Color-screen instruments



RELIABLE AND DURABLE

- The enhanced drive axle and gearbox with the mast, steering axles with tapered roller bearing (for the heavy-duty model) and big tires for internal combustion forklifts can meet the demand of application in heavy-duty working conditions;
- Low center of gravity and high load margin are designed for more stable working;
- Verified in accordance with double standards of electric forklifts and internal combustion forklifts, with the enhanced test strength higher than that for the internal combustion standard, this forklift is reliable and durable.



Ground clearance increased





KEEP AN EYE ON EVERYTHING

Hangcha FIMS is a system that provides you with real-time information about forklift truck and driver. Whether you have dozens or hundreds of forklift trucks across multiple sites, you can get access to collecting, monitoring and evaluating all the fleet data at anytime and anywhere.

>> Features

- Access Control
- ▶ GPS Tracking
- ▶ Remote Monitoring
- ▶ Maintenance Reminder
- OpenAPI (Optional)

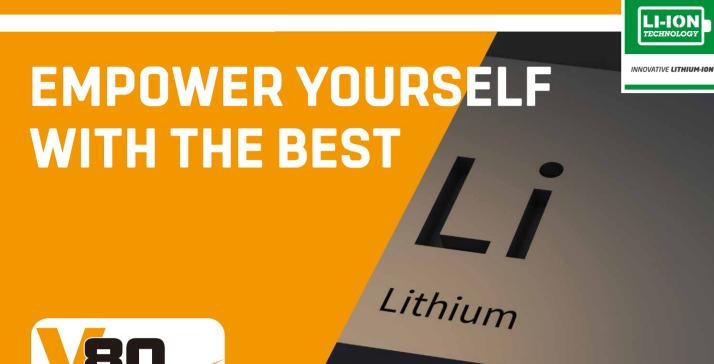
▶ Vibration Monitoring

▶ Pre-shift Check (Optional)

▶ Shift Management (Optional)

▶ Vehicle Management

LITHIUM POWERED



LITHIUM BATTERY ADVANTAGES



Long service life

4000 full charging cycles with at least 75% residual capacity



Return on investment

LITHIUM ION

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



Maintenance free

No topping up of water or checking acid levels.



The high energy density of the Li-lon battery ensures long



Cold area application

Li-lon batteries maintain high performance at temperatures

POWER THE POSSIBILITIES

RELIABLE LITHIUM-ION TECHNOLOGY



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.



High energy density

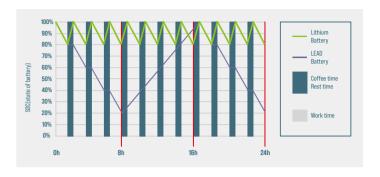
working times and increases the high availability.



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.





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

Charging temperature -30°C -65°C -30°C -65°C Discharge temperature: -30°C -65°C Storage environment temperature:

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.



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

- 1. Available power of lithium battery (kWh) = rated voltage × rated power × 90% (To avoid over-discharge damaging the battery, the forklift is equipped with low power protection (less than 10%)).
- 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 $\div\,93\%$ (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.



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

HANGCHA BMS (battery management system) can monitors the cells at all time. 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



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

LI-ION BATTERIES AND CHARGERS

Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.

HANGCHA provides Li-lon battery (LiFePO4) with

6 years or 12000 hours warranty.

HANGCHA WARRANTY SERVICE



IT'S FASTER AND EASIER WITH HANGCHA

Innovative, reliable lithium-ion technology (Lithium Iron-Phosphate), which are developed jointly by HANGCHA and CATL. Battery cells and modules are from CATL, with reliable quality, exclusively for HANGCHA.





Battery Capacity (Standard)
80V/150~460Ah
Battery weight: 150-310kg

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Charger model:

SLC-80100 SLC-80200

Output voltage range (V):

80V charger: 40Vdc - 100Vdc

Output current range (A):

100A charger: 5A - 100A(SLC-80100) 200A charger: 5A - 200A(SLC-80200)

EVE Battery Capacity

Capacity(Ah)	1.5-mini2.0t 80V	2.0-2.	5t 80V	3.0-3.	8t 80V
Capacity(Aii)	HA	HA	H2	HA	H2
150	•	/	/	/	/
230	0	•	/	•	/
304	0	0	•	0	/
460	1	0	0	0	•
560	1	1	/	0	0
608	/	/	/	/	0

Note: • Standard; O Optional

CATL Battery Capacity

Capacity(Ah)	1.5-mini2.0t 80V	2.0-2.5t 80V		3.0-3.	8t 80V
Capacity(Aii)	НА	HA	H2	HA	H2
228	0	/	/	/	/
302	0	0	0	0	1
456	1	0	0	0	0
604	/	1	1	0	0

Note: • Standard; O Optional

Features

Color	Standard	Option
Yellow-black	•	
Other customized color		0
Particular market		
CE Standard		0
Cold storage environment		
-30°C		0
Mast		
Standard duplex mast	•	
Configuration Table of the Mast		0
Fork and attachment		
Standard fork Fork arm carrier	•	
Load backrest	•	
Non-standard series fork		0
Various attachments		0
Tires		
Pneumatic tire (single)	•	
Pneumatic tire (dual)		0
Solid tire (single)		0
Solid tire (dual)		0
Multiway valve		
Double multi-way valve	•	
Potentionmeter for lift	•	
3rd vavle		0
4th vavle 5th vavle (2.0-3.8t)		0
		0
Tiller		
Lifting and tilting level	•	
Fingertip system		0
Battery		
Standard lithium battery	•	
Large-capacity lithium battery		0
Quick-change lithium battery		0
Light		
LED head lamp	•	
Turn signal lamp	•	
LED rear combination lamp	•	
Common alarm lamp Acoustic and optical alarm lamp		0
LED rear lamp		0
Blue light		0
Straight projection lamp		0
Horn		
Electric horn	•	
Reverse buzzer	•	
Right rear armrest with horn button		0
Smart module		

Features

Safety configuration	Standard	Optio
Emergency power-off switch	•	
Fuse box	•	
Soft landing Soft landing	•	
Reversing radar		0
OPS system		0
Fire extinguisher		0
Ascending buffering		0
Parking brake		
Mechanical handbrake	•	
EPB[Electric Parking Brake]		0
Instrument rack space		
Smart color-screen instrument (speed mode selection)	•	
Combination switch	•	
Cigarette lighter		0
USB port		0
Electronic code lock (start by swiping a card)		0
Driving space		
Standard overhead guard	•	
Central rear view mirror	•	
Front windshield		0
PVC ceiling		0
Cab		0
Electric fan		0
Left and right rear view mirrors		0
Seat		
Standard seat	•	
Fully-suspended seat		0
Semi-suspended seat		0
Other standard configuration		
Drive and lifting controllers	•	
Driving and lifting motors	•	
Silent gear pump	•	
DC-DC converter	•	
Pedal pad	•	
Traction pin	•	