

**POWERFUL  
EFFICIENT  
RELIABLE**



**HANGCHA**

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ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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INNOVATIVE LITHIUM-ION

# HIGH-VOLTAGE LITHIUM BATTERY ROUGH TERRAIN FORKLIFT

with capacity of 2,500 to 3,500kg



*The World of Hangcha*



**HANGCHA**

# HIGH-VOLTAGE LITHIUM BATTERY ROUGH TERRAIN FORKLIFT

**2WD & 4WD**  
ROUGH TERRAIN ROUGH TERRAIN

The 2.5-3.5t high-voltage lithium battery rough terrain forklifts are independently-developed new series lithium battery rough terrain products that combine the advantages of XH series dedicated heavy-duty high-voltage lithium battery forklifts and rough terrain internal combustion forklifts. Representing a breakthrough over the traditional design and a new generation of rough terrain forklifts, the forklift of this series is equipped with pioneered front and rear dual-motor forklift high-voltage drive systems and a new energy vehicle high-voltage platform to offer both performance of rough terrain forklift and comfort of electric forklift.

VOLTAGE

**317 V**

WATER RESISTANCE

**IP67**

SPEED MODELS

**3**

PROTECTION RATE

**IP67**

100% CHARGE FOR

**1.5Hour**

## Appearance

/ With the inherited classic exterior design of internal combustion off-road forklifts as well as a sturdy profile and a custom pitch-down streamlined design, the vehicle is robust and elegant in appearance.

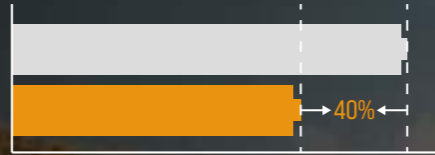


# FASTER & MORE EFFICIENCY.

Compared with low-voltage lithium battery forklifts, high-voltage lithium battery technology can save about 40% of the overall cost during the service cycle.

## 40%

Low Voltage Lithium Battery Forklift  
Hangcha High Voltage Lithium Electric Forklift



Compared with fuel forklifts, high-voltage lithium battery technology can save about 90% of the overall cost during the service cycle.

## 90%

Fuel Forklift  
Lithium Electric Forklift



## 4000

CYCLES OF CHARGING



Under normal charging and discharging conditions, the lithium battery of Hangcha products has a capacity retention rate of more than 75% and a life span of up to 10 years after 4000 cycles of charging and discharging.

Through disruptive battery and fast charging technology, the charging time is greatly shortened.

Fast charging makes it possible for the whole vehicle to work continuously, shortening the waiting time and greatly improving efficiency.

Get the battery fully charge:



Hangcha High Voltage Electric Forklift



Electric Forklift

HIGH-VOLTAGE

# 46.368kWh

Battery capacity



# OFF ROAD PERFORMANCE

“ The design of large passing angle and large distance from the ground, as well as the large-tread tubeless tires, can perfectly adapt to various bad road conditions. ”  
 — Hangcha R & D Center

## Excellent passing performance

- The differential mechanism lock and one-click switchover between double-drive mode and four-drive mode are specially designed for rugged terrain and harsh natural environments.
- Low vehicle height and the optional low-height mast meet not only outdoor but also indoor and underground site operating requirements.



Front tyre:14-17.5      Rear tyre:10.0/75-15.3



## Wide-base deep tread tyres

The drive axle is equipped with wide-base deep tread tires, wet brake, differential mechanism with electronic lock, as well as reinforced steering drive axle, and can better adapt to special working conditions.

Higher specification fork mounting level-3B, more weight can be loaded.



## Efficient operating performance

- The efficient high-torque permanent magnet synchronous motor and the high speed ratio speed reducer offer power performance and handling performance rival that of rough terrain internal combustion forklifts.
- The new front and rear drive design effectively increase the layout space. The vehicle controller controls the front and rear motor torque to be flexibly distributed according to various special operating conditions.

	High Voltage Lithium Battery Rough Terrain Forklift	Internal Combustion Rough Terrain Forklifts
Travel speed, laden/unladen	24/26km/h	24/26km/h
Lift speed, laden/unladen	620/660mm/s	620/640mm/s
Max. gradeability, S2=5min, laden/unladen	63-52%	58-52%

## Excellent heat dissipation performance

- The water chilling system for electric control and motor and the large vent design for rough terrain internal combustion forklift offer quick heat exchange and better heat dissipation performance.
- The external hydraulic tank integrated with the vehicle frame offers better heat dissipation and ensures the long reliable operations of the hydraulic parts.



# TOUGH TRIED AND TRUE

**1.5**  
**HOUR**  
CHARGING TIME

## Excellent Vision



The panoramic wide-view design offers a wide view through the mast and overhead guard. The horizontal level of the front and rear sides, the left and right sides.

## Energy saving and high efficiency

- Both the drive and operating systems are efficient vehicle-grade permanent magnet synchronization systems with low energy consumption.
- With a super fast charging technology, the long-lasting large-capacity lithium battery can be fully charged in about **1.5 hours** so that the time of waiting for operations is significantly reduced.
- The LED lighting system of the vehicle has low energy consumption and a longer service life.



Charging port



LED

## Safety and reliability

- The wet brake drive axle and the large swing angle steering drive axle, peers for rough terrain internal combustion forklifts, have good versatility and guaranteed quality.
- Electrical connectors of the vehicle are designed to be waterproof and main high-voltage electrical components reach the dust and water resistance level of IP67. The electrical system has high-voltage interlocking.



The MSD maintenance switch enables one-click power-down and safer maintenance.



Each product of this series is equipped with a CATL lithium battery and can be equipped with an optional automatic fire extinguisher for safer use. The suspended shock-absorbing battery pack offers higher reliability of the battery.



*Inherited from the rough terrain internal combustion series, the suspended overhead guard and the suspended shock-absorbing seat bring comfortable driving experience.*



## Comfort and convenience

- The multi functional color-screen instruments are designed to have graphical interfaces and display data clearly.
- The fully enclosed instrument cover and the low-noise gear pump further reduce the noise of the vehicle.
- The wide-opened hood, detachable front and rear baseplates and detachable double water tank lids facilitate repair and maintenance.