



HANGCHA GROUP CO., LTD.

Factory site: 666 Xiangfu Road, Hangzhou, Zhejiang, China (311305)

Tel: +86-571-88926735 88926755  
Fax: +86-571-88926789 88132890

sales@hcforklift.com  
www.hcforklift.com



Follow us on Facebook



Follow us on YouTube



Follow us on WeChat



Download "Hangcha Forklift" App



ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform to the European Safety Requirements.

2024 VERSION 1/COPYRIGHT 2024/04

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.

# A Series Rough Terrain Pallet Truck

with capacity of 1,500kg



INNOVATIVE LITHIUM-ION



The World of Hangcha

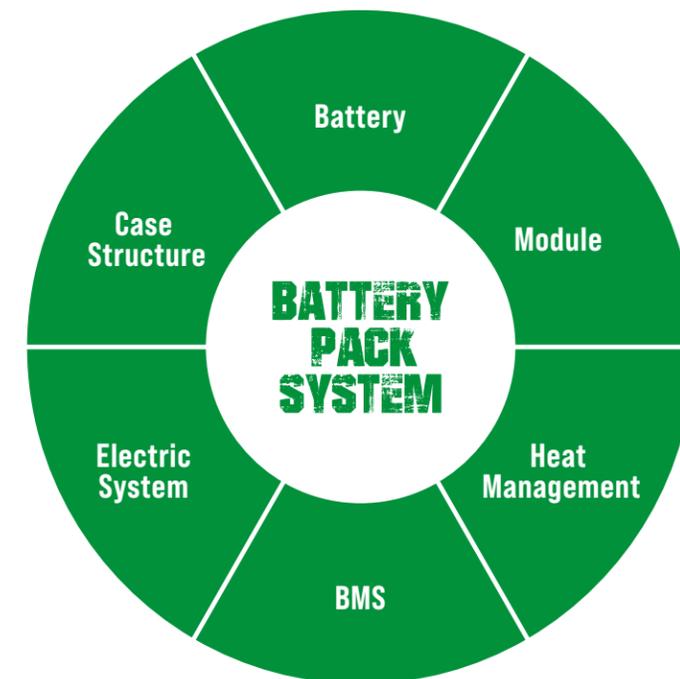


# LET THE LIUM POWER FREED



# INNOVATIVE SOLUTIONS NEW POWER NOW

- / We use square lithium iron phosphate batteries and modules used in large quantities by commercial vehicles in mature economies.
- / Safe and effective: Charging efficiency as high as 95%.
- / Quick charging.
- / Long-working: 2000 charging cycles, capacity retention greater than 80%.
- / Maintenance-free: Battery does not require manual maintenance.
- / Green and clean: Pollution-free, zero emissions.



**Rapid charging and opportunity charging ensure continuous availability of vehicles**

Allow for fast full charging or boost charging. They are maintenance free and do not require a battery change when used for multi-shift operations.



**LI-ION**  
TECHNOLOGY

HANGCHA PROVIDES **3 YEAR**  
**OR 6000 HOURS** GUARANTEE  
ON LITHIUM BATTERY.



**3 YEAR**  
**WARRANTY**

# A SERIES

## ROUGH TERRAIN PALLET TRUCK

The 1.5t A series electric powered rough terrain pallet truck is mainly designed to meet the transportation needs of industries such as civil engineering and infrastructure. It has good stability and strong obstacle crossing ability, making it suitable for complex and harsh outdoor conditions, breaking through the limitations of traditional pallet trucks that are only suitable for indoor warehouses and workshops.



### Exterior

Following the family style appearance of the A series, the lines are strong and smooth, the entire truck is simple and atmospheric, three-dimensional and full, with a fashionable and stable design.

**OFF ROAD**

# MOVING MORE

The pallet truck adopts DC brushless traction control technology, combined with advanced lithium battery technology, to achieve fast charging, safe and reliable, and low maintenance costs; The large-sized rubber solid tire ensures high passability and excellent protective performance, making it an ideal tool for outdoor loading and unloading and handling of palletized goods.



The front wheels are equipped with deep groove rubber tires, with large ground clearance, wear resistance and durability, and good shock absorption effect.

### Comfort

- 1 Multifunctional instrument, integrated display of battery power, working hours.
- 2 Pedestrian mode, adopting a low and long handle design, with low steering force and easy operation.
- 3 The use of mold springs as rebound components ensures stable and reliable performance with low operating force.



Optimized design of low height mast, with large distance between fork-arms, wide field of view provides excellent ergonomics.



# ADVANCED AND SAFE

**10%**  
GRADEABILITY  
[unladen]

The traction and main controller with DC brushless control system, combined with a high-performance planetary gearbox, with strong power, high climbing slope, superior acceleration performance, and efficient environmental protection.

| Table of the battery features |     |
|-------------------------------|-----|
| Capacity (Ah)                 | 48V |
| 20 (lithium battery)          | ●   |
| 50 (Gel battery)              | ○   |

Note: ● Standard battery capacity; ○ Optional battery capacity

The pallet truck is equipped with 48V voltage system, with low motor current, less heat generation, and lower losses under laden and unladen lifting conditions.



Equipped with high-performance lithium batteries, efficient and energy-saving; It has short charging time and high usage efficiency.



The strength of important components such as the frame and mast has been double verified through CAE analysis and strengthening tests.

Release braking, reverse braking, and emergency braking to ensure the safety of driving.

The battery adopts lithium iron phosphate battery cells, which have good stability, safety, and efficiency.

The reinforced design of the frame and the covering parts are all made of steel plate stamping forming technology, with superior protective performance.



The emergency reverse button on the head of the handle can effectively prevent the driver from being injured when encountering emergency situations.

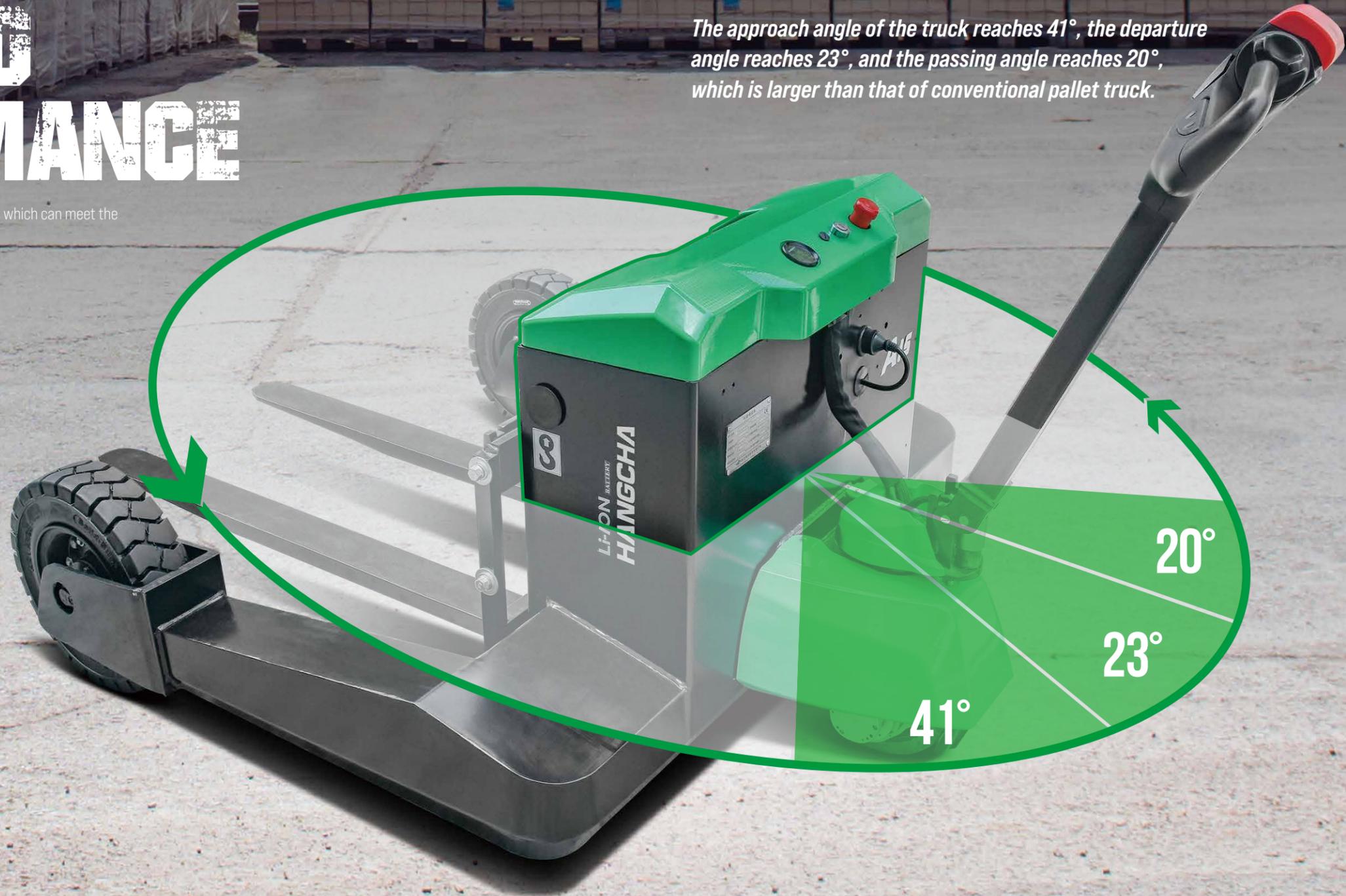
The components and connectors of the electrical system are mostly designed with high protection levels and placed inside the covering parts. The waterproof level reaches IPX4, which can meet the needs of outdoor operations.



# OFF ROAD PERFORMANCE

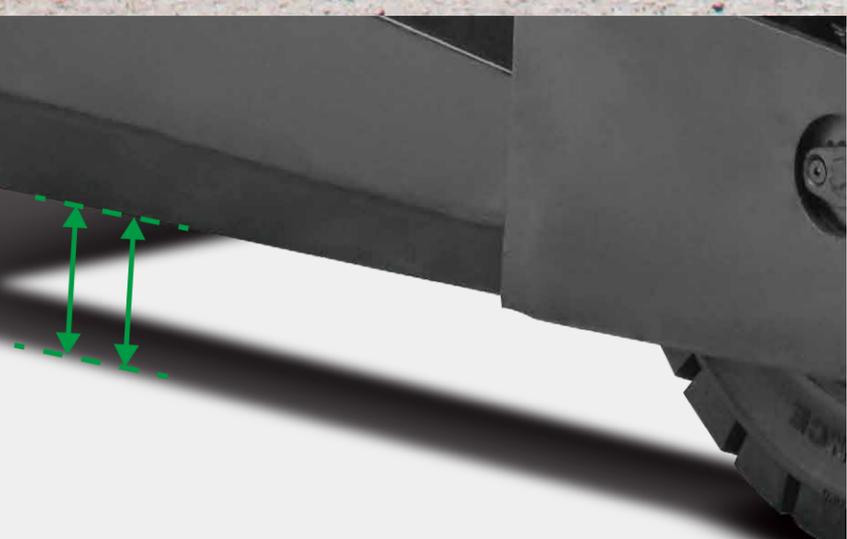
It has high passability and excellent obstacle crossing ability, which can meet the needs of outdoor off-road conditions.

The approach angle of the truck reaches  $41^\circ$ , the departure angle reaches  $23^\circ$ , and the passing angle reaches  $20^\circ$ , which is larger than that of conventional pallet truck.



Larger width, small turning radius, flexible operation, and superior lateral stability.

The ground clearance reaches **100mm**



The lifting height reaches **250mm**



## Maintenance

- 1 The full opened hood makes battery replacement and maintenance more convenient.
- 2 Built-in charger as standard, making charging more convenient and efficient.
- 3 DC brushless motor without carbon brush, superior maintenance performance.



## A Series Rough Terrain Pallet Truck Specification

|                     |                  | HANGCHA GROUP CO.,LTD.  |                              |
|---------------------|------------------|---|------------------------------|
| Distinguishing mark | 1.1              | Manufacturer  | HANGCHA GROUP CO.,LTD.       |
|                     | 1.2              | Manufacturer's type designation                                 | CBD15-AMC1-IRT               |
|                     | 1.4              | Operator type: hand, pedestrian, standing, seated, order-picker | Pedestrian                   |
| Weight              | 1.5              | Rated capacity/rated load                                       | Q (kg) 1500                  |
|                     | 1.6              | Load centre distance  | c (mm) 500                   |
|                     | 1.8              | Load distance, centre of drive axle to fork                     | x (mm) 667                   |
| Tyres/chassis       | 1.9              | Wheelbase   | y (mm) 1197                  |
|                     | 2.1              | Service Weight  | kg 440                       |
|                     | 2.2              | Axle loading, laden front/rear                                  | kg 460/1480                  |
| Dimensions          | 2.3              | Axle loading, unladen front/rear                                | kg 240/200                   |
|                     | 3.1              | Tyres: solid rubber, superelastic, pneumatic, polyurethane      | solid rubber                 |
|                     | 3.2              | Tyre size, front  | φ250×80                      |
| Performance data    | 3.3              | Tyre size, rear   | φ399×104                     |
|                     | 3.5              | Wheels, number front / rear (x = driven wheels)                 | 1x/2                         |
|                     | 3.7              | Tread, rear   | b11 (mm) 1230                |
| Electric-engine     | 4.4              | Lift  | h3 (mm) 250                  |
|                     | 4.19             | Overall length  | l1 (mm) 1773                 |
|                     | 4.20             | Length to face of forks   | l2 (mm) 703                  |
| Performance data    | 4.21             | Overall width   | b1/b2(mm) 546/1390           |
|                     | 4.22             | Fork dimensions   | s/e/l (mm) 35/100/1070       |
|                     | 4.25             | Distance between fork-arms                                      | bs (mm) 210-850              |
| Performance data    | 4.32             | Ground clearance, centre of wheelbase                           | m2 (mm) 100                  |
|                     | 4.34.2           | Aisle width for pallets 800 x 1200 lengthways                   | Ast (mm) 2112                |
|                     | 4.35             | Turning radius  | Wa (mm) 1410                 |
| Performance data    | 5.1              | Travel speed, laden/unladen                                     | km/h 5.5/5.5                 |
|                     | 5.2              | Lift speed, laden/unladen                                       | m/s 0.046/0.061              |
|                     | 5.3              | Lowering speed, laden/unladen                                   | m/s 0.056/0.058              |
| Performance data    | 5.8              | Max. gradeability, laden/unladen                                | % 6/10                       |
|                     |                  | Parking brake   | Electric                     |
|                     | Performance data | 6.1   | Drive motor rating S2 60 min |
| 6.2                 |                  | Lift motor rating at S3 15%                                     | kW 1.5                       |
| 6.4                 |                  | Battery voltage, nominal capacity K5                            | V/Ah 48/20                   |
| Performance data    | 6.5              | Battery weight  | kg 11.4                      |
|                     | 8.1              | Type of drive unit  | DC                           |
|                     | 9.1              | Manufacturer/Type   | Curtis /1226BL               |

## Features

| Truck   | Standard | Options |
|---|----------|---------|
| Φ399*104 solid rubber load wheel                    | ●        |         |
| Φ250*80 solid rubber traction wheel                 | ●        |         |
| Iron stamping cover, iron stamping rear wheel cover | ●        |         |
| Build-in charger                                    | ●        |         |
| 48V/20Ah lithium battery                            | ●        |         |
| Walking upright                                     | ●        |         |
| Integrated hydraulic unit                           | ●        |         |
| 48V/50Ah Gel battery                                |          | ○       |
| Φ300*80 solid rubber wheel                          |          | ○       |
| Load backrest                                       |          | ○       |
| Distance between outer width of legs                |          | ○       |
| Fork length: 1150, 1250mm                           |          | ○       |
| <b>Controls and instruments</b>                     |          |         |
| Multifunctional instrument                          | ●        |         |
| Curtis controller                                   | ●        |         |
| Emergency power-off switch                          | ●        |         |
| Key   | ●        |         |
| Lifting limit with electric switch                  | ●        |         |
| Tiller with CANBUS structure                        | ●        |         |
| <b>Safety</b>                                       |          |         |
| Horn  | ●        |         |

