

A red Heli AC 20 electric tractor is shown in a large industrial factory. The tractor is positioned in the foreground, facing right. It has a black seat and a steering wheel. The background shows a vast factory floor with several other forklifts and industrial structures. A yellow banner is overlaid on the top right of the image.

**2-4.5ton**

**MAIN CHARACTERS AND CONFIGURATION  
AC STAND-ON TYPE ELECTRIC TRACTOR**

**CHINESE EXPORT BRAND**

Recommended  
By China Chamber of Commerce for Import and Export of Machinery  
And Electric Products

**HELI**  
**LIFTING THE FUTURE**



## 2-4.5t MAIN CHARACTERS AND CONFIGURATION AC STAND-ON TYPE ELECTRIC TRACTOR



### » Brief introduction

**2-4.5t AC stand-on type electric tractor** is a new generation of environment friendly tractor designed by HELI. With popular appearance and reliable performance, the truck mainly used in material handling operation inside automobile manufacturing and large industrial enterprises is an important equipment in regional logistics. The three-wheel truck is powered by battery. The steering wheel and drive wheel is front wheel. Imported AC type controller with stepless speed regulation is assembled on the truck. The truck has high energy efficiency, low noise, easy operation and flexible steering.



## Driving system

- With HELI homebrew driving unit, the truck has compact structure, low noise, no pollution and stable travelling.
- AC motor without carbon brush and free of daily maintenance is assembled.

## Braking system

- With AC type energy regenerating technology, battery can be charged when braking and energy is saved.
- Self braking function on slope enhances truck safety.



## Steering system

- With electric steering technology (only electric steering truck model), the truck has reliable and easy steering and superior tracking character.

## Operating system

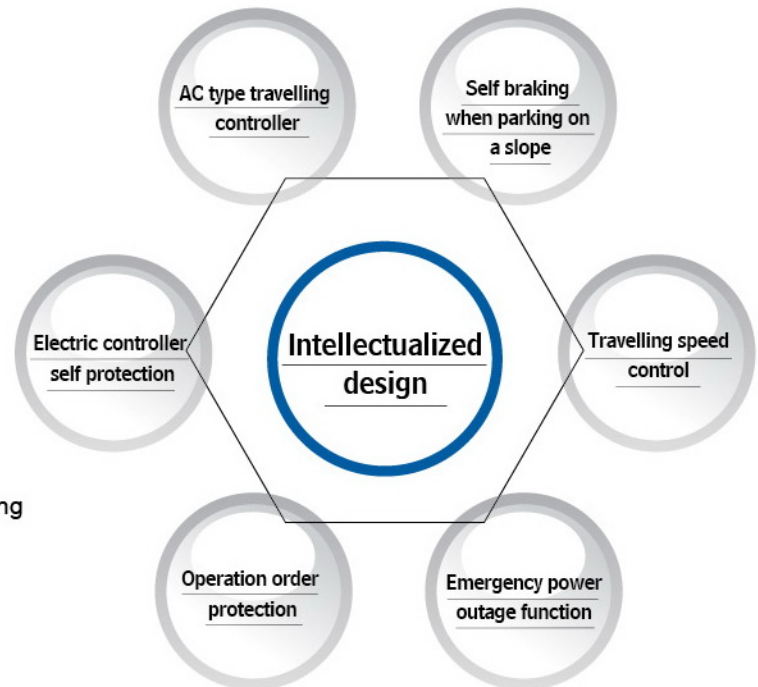
- Reasonable operating layout and optimized operating knob satisfy ergonomic requirements.

## Controlling system

- AC controller with self protection, free maintenance and low noise is assembled.
- AC motor without carbon brush and free of daily maintenance is assembled. Temperature sensor and speed sensor are assembled in all motors to protect motor from accidental damage.
- Close-loop control on travelling speed ensures superior tracking of travelling speed and acceleration and that the truck will not be out of control when step on acceleration pedal
- The truck is powerful when going uphill.
- The truck can stop on a slope automatically without hand brake under loaded or unloaded condition, ensuring superior safety.

## Others

- The battery can be pulled out from side or lifted vertically, facilitating easy battery changing.



## Technical parameter

| Item                                 | Unit      |   |                   |                     |                   |                     |
|--------------------------------------|-----------|---|-------------------|---------------------|-------------------|---------------------|
| 1 Model                              |           | QYD20S-LF2  | QYD30S-LF2        | QYD30S-LG2          | QYD45S-LF2        | QYD45S-LG2          |
| 2 Driving mode                       |           | Stand-on type   | Stand-on type     | Stand-on type       | Stand-on type     | Stand-on type       |
| 3 Steering mode                      |           | Electric steering   | Electric steering | Mechanical steering | Electric steering | Mechanical steering |
| 4 Rated traction ability             | Kg        | 2000  | 3000              | 3000                | 4500              | 4500                |
| 5 rated traction pull                | N         | 750   | 1250              | 1250                | 1250              | 1250                |
| 6 Wheel base                         | L1 ( mm ) | 1130  | 1130              | 1130                | 1130              | 1130                |
| 7 Weight                             | Kg        | 730   | 800               | 800                 | 870               | 870                 |
| 8 Axle load(unloaded)front/rear      | Kg        | 450/280   | 495/305           | 495/305             | 540/330           | 540/330             |
| 9 Tyre (front tyre)                  |           | ∅250x100  | ∅250x100          | ∅250x100            | ∅250x100          | ∅250x100            |
| 10 Tyre (rear tyre)                  |           | ∅250x120  | ∅250x120          | ∅250x120            | ∅250x120          | ∅250x120            |
| 11 Rear tread                        | C ( mm )  | 630   | 630               | 630                 | 630               | 630                 |
| 12 Overall height                    | H ( mm )  | 1200  | 1200              | 1200                | 1200              | 1200                |
| 13 Traction hook height              | N ( mm )  | 260/360   | 260/360           | 260/360             | 260/360           | 260/360             |
| 14 Rear overhang                     | L3(mm)    | 150   | 150               | 150                 | 150               | 150                 |
| 15 Front overhang                    | L2(mm)    | 210   | 210               | 210                 | 210               | 210                 |
| 16 Overall length                    | L(mm)     | 1490  | 1490              | 1490                | 1490              | 1490                |
| 17 Overall width                     | D ( mm )  | 754   | 754               | 754                 | 754               | 754                 |
| 18 Min. ground clearance             | E ( mm )  | 80  | 80                | 80                  | 80                | 80                  |
| 19 Min. steering radius              | Wa ( mm ) | 1450  | 1450              | 1500                | 1450              | 1500                |
| 20 Travelling speed: loaded/unloaded | Km/h      | 7/8   | 7/8               | 7/8                 | 6/8               | 6/8                 |
| 21 Gradeability loaded/unloaded      | %         | 5/10  | 5/10              | 5/10                | 4/10              | 4/10                |
| 22 Service brake                     |           | AC type energy regenerating braking and Electromagnetic braking |                   |                     |                   |                     |
| 23 Parking brake                     |           | Electromagnetic braking   |                   |                     |                   |                     |
| 24 Driving motor power               | kw        | 1.5   | 2.6               | 2.6                 | 2.6               | 2.6                 |
| 25 Steering motor power              | kw        | 0.15  | 0.15              | /                   | 0.15              | /                   |
| 26 Battery voltage/capacity          | V/Ah      | 24/210  | 24/280            | 24/280              | 24/430            | 24/430              |

## Optional

|               |                                       |
|---------------|---------------------------------------|
| Warning light | FAAM battery                          |
| Front lamp    | HOPPECKE battery                      |
| GS battery    | Battery automatic water adding device |

- Our products are keeping improving and HELI have the rights to update truck specifications and design without prior notice.
- The figure in the brochure may not be the standard model and its configuration and color may be different from actual machine. Please refer to the real machine.

## ANHUI HELI CO., LTD.

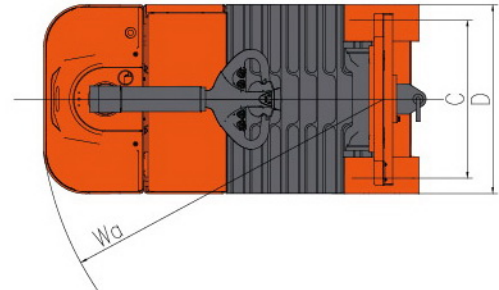
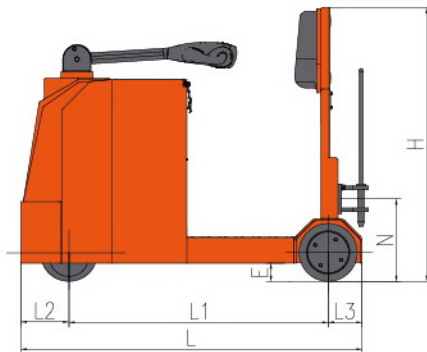
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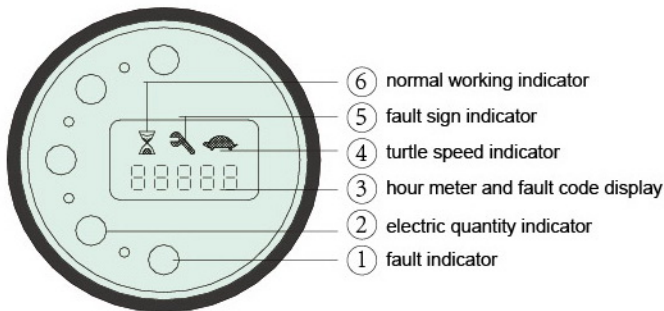
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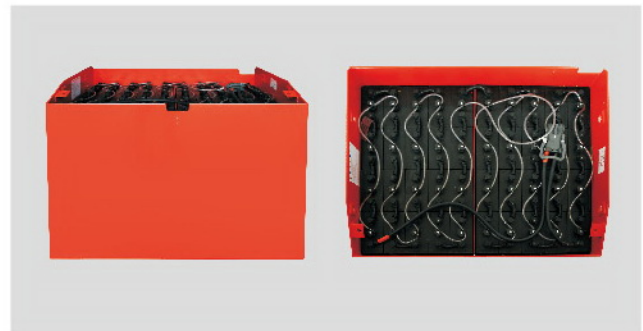


## >> Meter



- Imported multifunctional digital instrument displaying truck information directly and clearly is assembled in the truck.
- The information displaying on the meter are from the controller. The signal is free from the external electric circuit disturbing and the displaying content is reliable.
- The meter applying micro-processor technology has small size, fast operating speed, high reliability and high display precision in battery discharging condition.
- With real time dynamic displaying, battery discharging condition, working hours and fault of controlling system can be known directly and timely.
- The direct connection between the meter and controller simplifies connecting circuit, reduces fault points and ensures reliable communication.

## >> Automatic water adding device



- With the automatic water adding device, the water adding efficiency is improved and battery maintaining labor intensity is reduced.
- It avoids the liquid running out to the battery surface affecting battery safety and appearance quality when adding water manually.



## >> Energy regeneration technology

- With AC type energy regeneration technology, the working hour of single battery shift is 15% increased.

**↑ 15%** Working hour of single battery shift 15% increased