

CPD 30/35

A16LIH4



3-3.5 t
H4 Series Dockyard Special Vehicle



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Low Center of Gravity and High Efficiency

- The overall vehicle height is only 1730mm, with a low-body design, which enhances passability and effectively expands application scenarios in various narrow spaces.
- The extended wheelbase structure significantly improves stability during driving and operation.
- The standard two-stage full-free mast enhances passability and space utilization.
- The Haitian permanent magnet synchronous motor paired with high-quality electronic control ensures the vehicle has strong load capacity and high efficiency.



Haitian Permanent Magnet Synchronous Motor



Electronic Control



Stable and Reliable

Mask

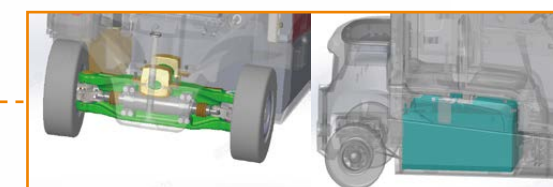
Key mast components draw on mature internal combustion series products, which have been verified by the market, featuring high reliability and low failure rate, ensuring the equipment operates efficiently and durably.

Oil Cylinder

Equipped with standard double-layer chrome-plated oil cylinders, which enhance corrosion resistance. The cylinders are immune to sea breeze and salt spray erosion, enabling the equipment to cope with the harsh coastal environment with ease.

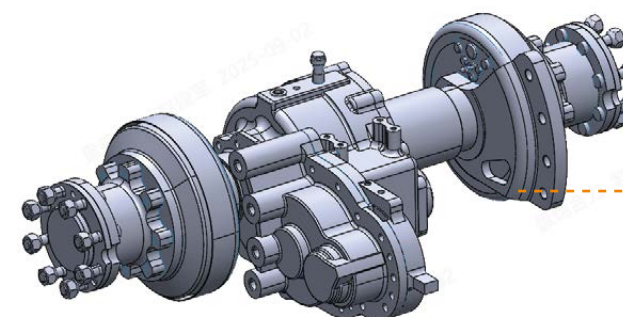


Side-mounted fuel tank welding ensures excellent heat dissipation.



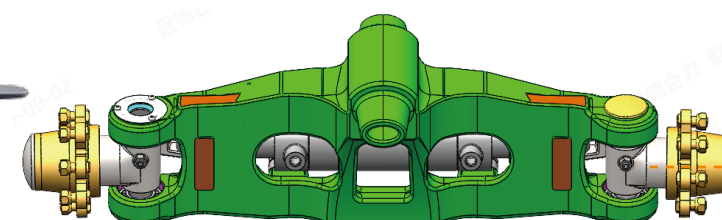
With a centrally mounted and sunken battery layout, plus a steering axle with a high-placed pivot point, the vehicle boasts excellent lateral stability and reliable safety.

Core components feature strong universality, reducing spare parts inventory and maintenance costs.



Drive Axle

Short-wheelbase Drive Axle, High-precision Casting Molding Process.



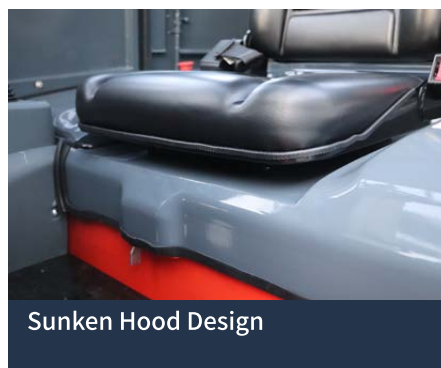
Steering Axle

Cast Axle Housing, Tapered Roller Bearings.

Comfortable and Energy-saving



- LED lights and signal lights: eye-catching, energy-saving and durable.
- The sunken cab design is adopted to further increase the headroom for the driver, improve driving comfort, and reduce fatigue during long-term operation.
- Designs such as the boarding handle, right-mounted operating valve lever, and intelligent color instrument enhance operational convenience and comfort.
- Equipped with extra-large wide-angle rearview mirrors, which greatly reduce blind spots, improve rear visibility, and enhance operational safety.



Convenient Maintenance

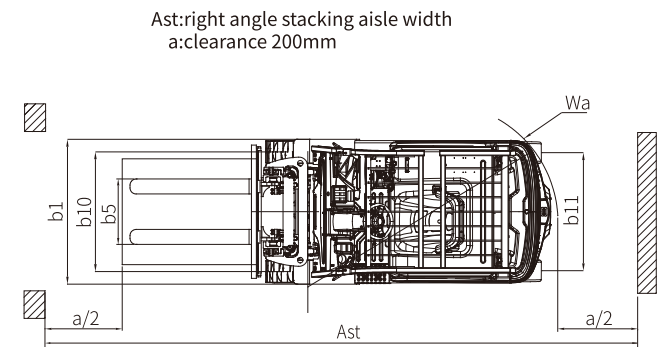
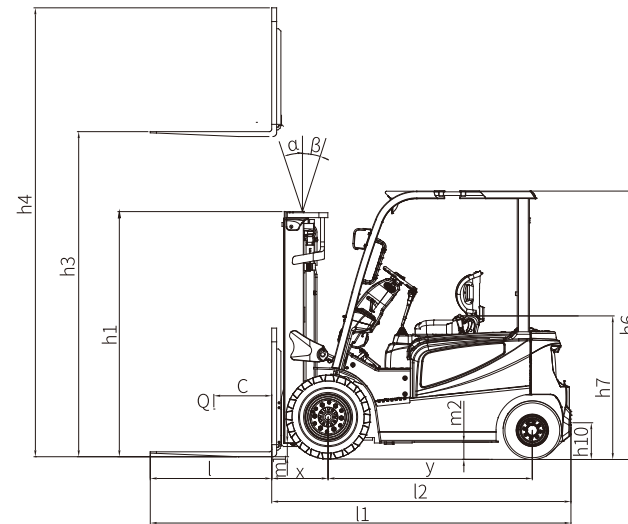


- Equipped with a foldable seat, enabling the hood to be opened at a large angle.
- Rear-mounted electronic control with centralized layout of electrical components, allowing key parts to be easily accessible and improving inspection and repair efficiency.
- Quick-release tires for efficient replacement.

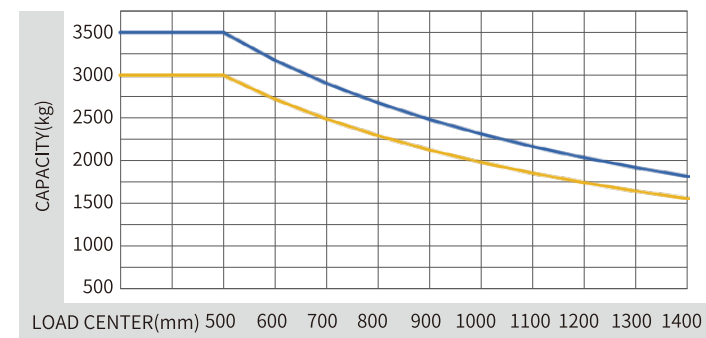


Manufacturer and Technical Data

Characteristics					
1.01	Manufacturer			HELI	
1.02	Model			CPD30	CPD35
1.03	Configuration number			A16LIH4	A16LIH4
1.04	Rated lifting capacity	Q	kg	3000	3500
1.05	Load center distance	c	mm	500	500
1.06	Power mode			Lithium battery	Lithium battery
1.07	Driving mode			Ride-on type	Ride-on type
1.08	Front overhang	x	mm	499	504
1.09	Wheelbase	y	mm	2000	2000
Weight					
2.01	Total weight(with/without battery)		kg	4200/3964	4420/4184
2.02	Axle load(laden,front/rear)		kg	6250/950	7100/820
2.03	Axle load(unladen,front/rear)		kg	1750/2450	1770/2650
Tyres					
3.01	Tyre type			Solid tire	Solid tire
3.02	Tyre size,front			23X10-12	23X10-12
3.03	Tyre size,rear			18X7-8	18X7-8
3.04	Wheels,number front/rear(x=driven wheels)			2x/2	2x/2
3.05	Tread,front	b10	mm	1000	1000
3.06	Tread,rear	b11	mm	970	970
Dimensions					
4.01	Mast tilt angle(forward/backward)	α/β	°	6/10	6/10
4.02	Height(mast lowered)	h1	mm	1730	1730
4.03	Free lifting height	h2	mm	1130	1130
4.04	Lifting height(standard)	h3	mm	2250	2250
4.05	Max.height,extended(Without backrest)	h4	mm	2850	2850
4.06	Height of overhead guard	h6	mm	1700	1700
4.07	Seat height relating to SIP(to ground)	h7	mm	779	779
4.08	Towing coupling height	h10	mm	290	290
4.09	Overall length(with fork)	l1	mm	3941	3941
4.10	Overall length(without fork)	l2	mm	2871	2871
4.11	Overall width	b1	mm	1262	1262
4.12	Fork size:thickness x width x length	s/e/l	mm	1070×125×50	1070×125×50
4.13	Fork carriage,according to ISO2328			3A	3A
4.14	Distance across fork-arms.Max./Min.	b5	mm	1060/250	1060/250
4.15	Ground clearance (Mast)	m1	mm	110	110
4.16	Ground Clearance (Center of wheelbase)	m2	mm	125	125
4.17	Right angle stacking aisle width for pallet 1000x1200mm crossways	Ast	mm	4232	4232
4.18	Right angle stacking aisle width for pallet 800x1200mm crossways	Ast	mm	4432	4432
4.19	Min.outside turning radius	Wa	mm	2550	2550
Performance Data					
5.01	Travel speed(laden/unladen)		km/h	18/19	18/19
5.02	Lift speed(laden/unladen)		mm/s	350/380	350/380
5.03	Lowering speed(laden/unladen)		mm/s	450/500	450/500
5.04	Max.drawbar pull(laden)		N	17000	17000
5.05	Max.gradeability(laden)		%	15	15
5.06	Acceleration time(10 m)(laden/unladen)		s	15/8	15/8
Battery					
6.01	Battery voltage/Capacity		V/Ah	76.8/202	76.8/202
6.02	Battery weight		kg	236	236
Motor and controller					
7.01	Driving motor powering(S2-60min)		kw	20	
7.02	Lifting motor powering(S3-15%)		kw	22.6	
7.03	Driving motor controlling mode			Permanent Magnet Synchronous	
7.04	Lifting motor controlling mode			Permanent Magnet Synchronous	
Addition data					
8.01	Service brake/Parking brake			Hydraulic power assisted braking/Ratchet mechanical handbrake	
8.02	Relief pressure		Mpa	21.5	



Load curve



3t 3.5t

Note:

The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load.the standard load means a cubic with 1000mm edge length.When mast is tilted forward,using non-standard forks or loading large goods,the load capacity will be reduced.The load capacity of standard mast at different load center can be known from this load chart.

Wide field of view Two stage full free mast

Mast model	Lifting height (mm)	Load capacity(load center 500mm)(kg)		Free Lifting height(mm)	Height (mast lowered)(mm)	Service weight (kg)		Mast tilt angle (front/rear)°
		3t	3.5t			3t	3.5t	
ZM225	2250	3000	3500	1130	1730	4200	4420	6/10

Optional item

Model	CPD30/35-A16LIH4		Model	CPD30/35-A16LIH4	
Basic items	Solid tyre	●	Cab/ Windshield/ Heater	Panel mounted cab(including fan+wiper)	●
	Single tire	●		Heater	●
	Two piece valve	●		Front windshield(Including wiper)	●
	Three or four piece valve	○		Rear windshield(Including wiper)	○
	Two stages full free 2.25m lifting height mast	●		Rear windshield	●
	Standard series fork	●		Top windshield (excluding fan)	●
	Non standard series fork and attachments	○	Non standard overhead guard	Overhead guard (with protective net)	○
	Standard exterior colors (blue grey + Heli red)	●		LED rear work lights(one piece)	●
	Other exterior colors (Customized)	○		Rear LED red/blue Spot Light (one Piece)	○
Safety items	Turning speed limit	○	Lights	Rear and lateral red/blue bar lights	○
	Full set of OPS functions	●		Fixed LED flashing warning light	●
	Multi way valve overload	○		Fixed LED rotary warning lamp	○
	Reversing buzzer	●		Fixed LED rotary buzzer warning light	●
	Reversing Chinese speaker	○	Others	Metric thread	○
	No universal key	●		Tilt cylinder jacket	●
	With universal key	○		Steering cylinder jacket	○
	Central wide-angle rearview mirror	●		REMA 320 charging port	●
	Both side rear-view mirrors+Central wide-angle rearview mirror	○		HELI FICS system	○

Note:

“●”Standard ; “○”Optional ;

Some non-standard options need to be customized,please consult local sales personnel or product development technicians before purchasing.