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www.heliforklift.net

HELI

CDD 16/20/25 A2FLiH

H 1.6-2.5t electric pallet stacker
with foldable platform



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COMFORT AND
ENERGY SAVING



STABLE AND
RELIABLE



INTELLIGENT
SECURITY



CONVENIENT
MAINTENANCE



Performance

24V AC platform with proportional control offers superior performance, smooth operation, and improved efficiency.



Reliability

The chassis is robust, with an H-beam steel mast that ensures greater stability. The branded components maintain consistent quality and comply with CE/UKCA requirements.



Appearance

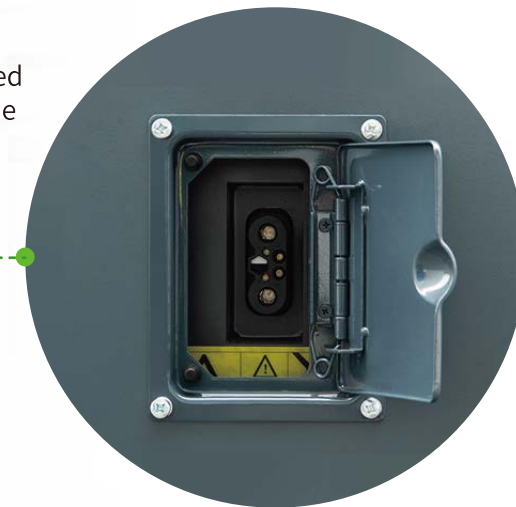
The entire machine features sleek and robust exterior lines, incorporating the principles of ergonomics in industrial design, resulting in more comfortable operation.

CDD 16/20/25 A2FLiH

H 1.6-2.5t electric pallet stacker
with foldable platform



The charging port is located on the side, eliminating the need to disconnect the entire device, making charging convenient.



TECHNICAL ADVANTAGES



Single work shift for **7.6h**, meeting the requirement of an **8h** work schedule



Standard configuration of charger
Fast charging.



The battery comes standard with electric heating, easily tackling cold environments.



The battery is designed for easy hoisting and replacement, ensuring convenient maintenance.

Model	Battery configuration		Discharge time (h, 100% to 10%)	Charging time (h, 10% to 100%)	Charging energy consumption (kWh)
				100A Charger	10% to 100%
CDD16-A2FLiH	Standard	24V/205Ah	5.2	2.0	4.7
	Optional	24V/300Ah	7.6	3.0	6.9
CDD20-A2FLiH	Standard	24V/300Ah	7.6	3.0	6.9
CDD25-A2FLiH	Optional	24V/350Ah	8.9	3.5	8.1

ROBUST PERFORMANCE

Travel speed
 Unladen 9km/h
 8km/h Laden

Gradeability
 Unladen 16%
 6% Laden

Lift speed
 Unladen 260mm/s
 120mm/s Laden



AC traction motor , ZF transmission, Strong power operation performance

Featuring a ZF transmission for reliable operation, an AC traction motor for superior driving performance, and electronic steering for comfortable handling

ZAPI controller, precise and stable control, safe and reliable

The vehicle is equipped with a ZAPI controller, ensuring precise control and reliable quality. Additionally, it features a low-noise cooling fan, making the vehicle capable of handling any working condition without hesitation



High performance proportional control system, comprehensively improving loading and unloading performance

The vehicle utilizes a CE-certified proportional control handle combined with a proportional valve pump station, which significantly enhances micro-control performance, making the overall loading and unloading operations smoother and more stable.



INTELLIGENT SECURITY

Equipped with loading operation safety system

The vehicle's travel speed varies depending on the height of the mast lift.

The vehicle automatically switches to slow-speed mode when the mast is raised to 400mm.



Equipped with adaptive damping steering system

It can achieve emergency stopping in critical situations and briefly reverse operation upon handle touch, ensuring driver safety.

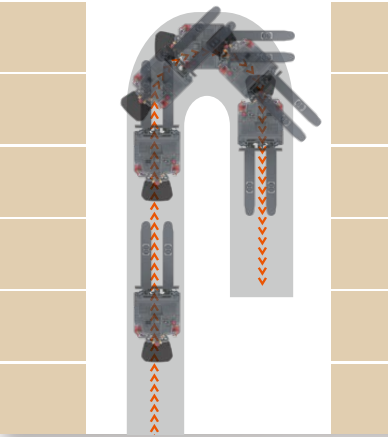
Equipped with adaptive damping steering system

Linking the steering force of the tiller to the vehicle speed: the faster the vehicle speed, the greater the steering force, further ensuring operational safety.

The vehicle's operating speed varies depending on the handle control mode.

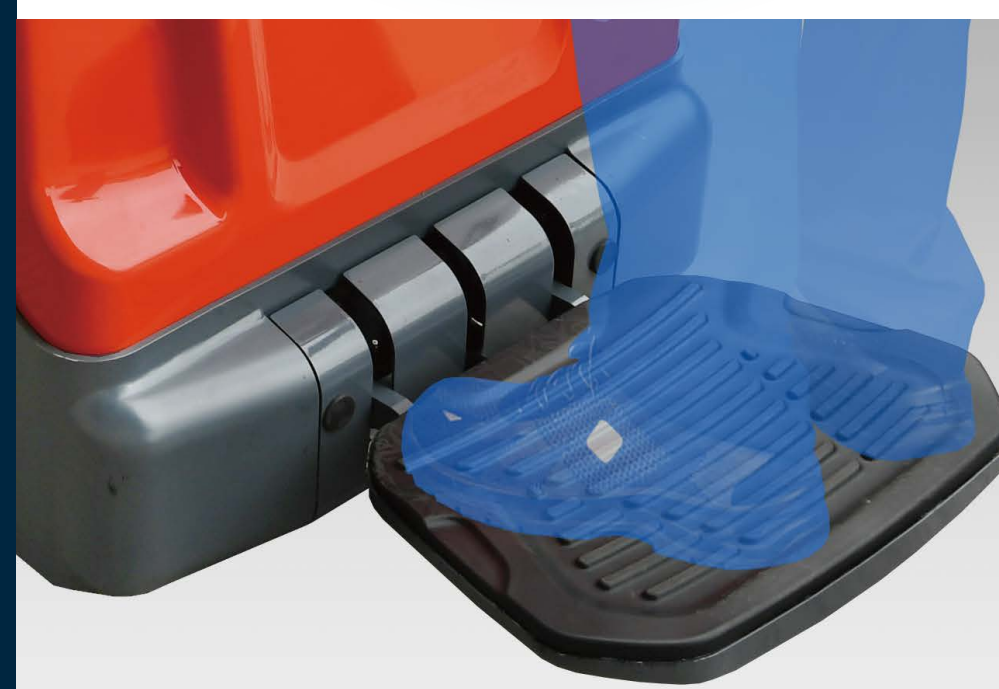


Standard configuration of speed limiting during turns.



Equipped with a driver stand-on sen sing safety system.

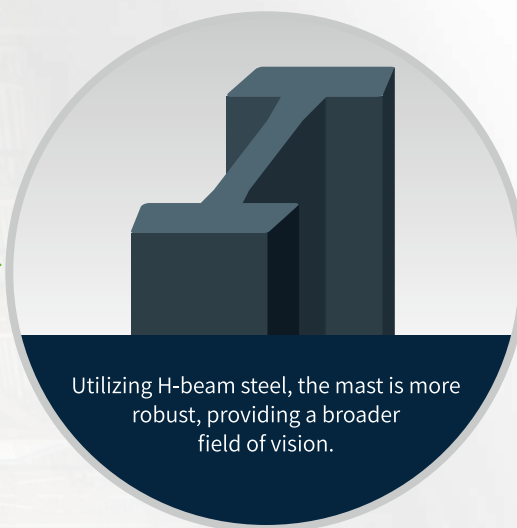
Similar to the counterbalance truck OPS system, it enables safe operation control and secure loading control in the driver stand-on mode.



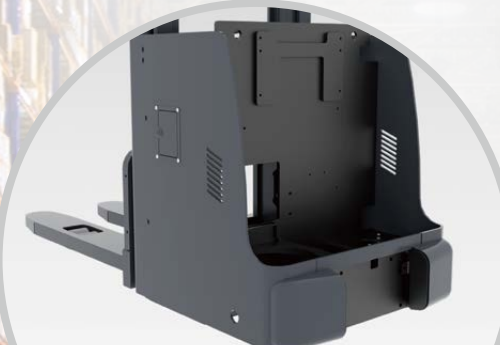
STABLE AND RELIABLE



H-Beam Mast



Utilizing H-beam steel, the mast is more robust, providing a broader field of vision.



Integrated Frame Body

Featuring an integrated, frame-type chassis structure, the vehicle's strength and rigidity are enhanced, offering better stability.



The vehicle adopts a modular design, enabling easy on-site assembly, more stable performance and quality, and convenient maintenance.

Modular System

EASY MAINTENANCE

Convenient Mast Disassembly and Assembly

With mast mounting points relocated outward, disassembling and installing the mast becomes more convenient, facilitating vehicle transportation, maintenance, and servicing.



Smart Color Screen Display

Equipped with an intelligent color screen display, it provides a superior visual experience, making the machine's status clear at a glance. The display features interactive functions, allowing direct parameter query and setup, with simple operation and easy maintenance.

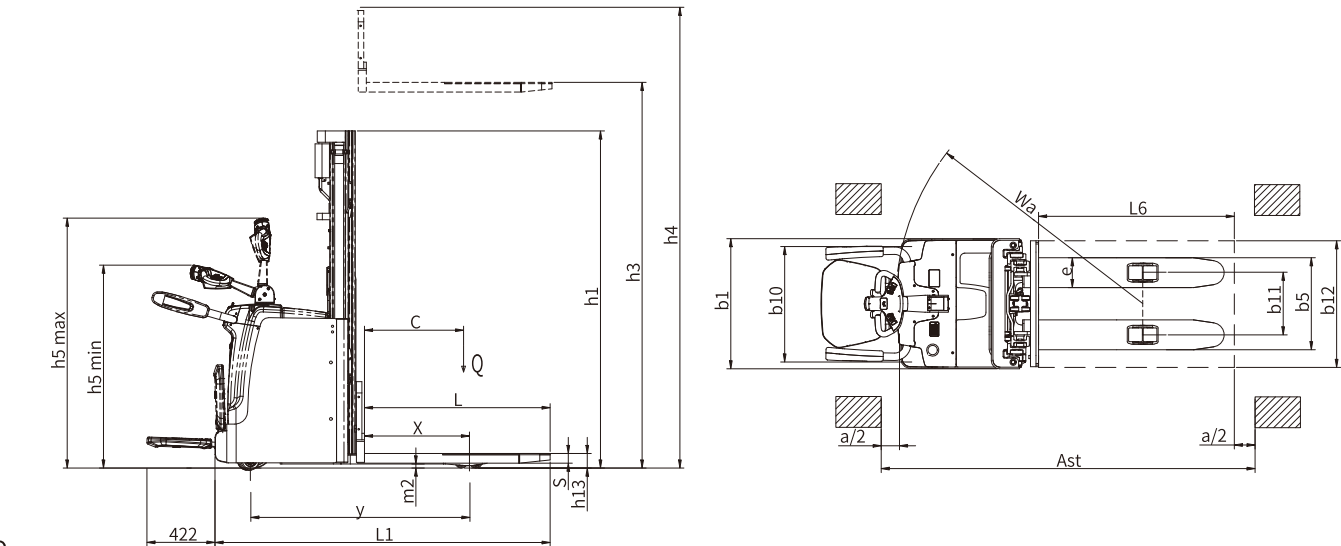


Modular System Assembly

All vehicle systems are modular, simplifying maintenance. Auxiliary wheels can be replaced directly from the inside without hoisting. Drive wheels are equipped with bolt tightening and torque inspection holes, making repair and replacement convenient.

MANUFACTRER AND TECHNICAL DATA						
Characteristics						
1.01	Manufacturer			HELI		
1.02	Model			CDD16-A2FLiH	CDD20-A2FLiH	CDD25-A2FLiH
1.03	Drive			Electric		
1.04	Operation			Pedestrian		
1.05	Rated capacity	Q	kg	1600	2000	2500
1.06	Load centre distance	c	mm	600		
1.07	Load distance, centre of support arm wheel to fork	x	mm	667		
1.08	Wheelbase	y	mm	1264	1336	1336
Weight						
2.01	Service weight (incl. battery/excl.battery)*		kg	1320/1120	1395/1215	1535/1355
2.02	Axle load laden front/rear*		kg	1025/1895	1195/2220	1210/2825
2.03	Axle load unladen front/rear*		kg	925/395	990/425	1075/460
Wheels / Chassis						
3.01	Tyres			Polyurethane		
3.02	Wheels, number front/back (x=driven)			1x+1/4		1x+2/4
3.03	Tyre size, front		mm	Ø250×75		Ø250×85
3.04	Additional wheels		mm	Ø140×54		Ø140×54
3.05	Tyre size, rear		mm	Ø85×85		
3.06	Tread width, front	b10	mm	520		
3.07	Tread width, rear	b11	mm	385		
Dimensions						
4.01	Height, mast lowered*	h1	mm	2090	2090	2240
4.02	Free lift*	h2	mm	0		
4.03	Max lifting height*	h3	mm	3000	3000	3000
4.04	Height, mast extended*	h4	mm	3535	3535	3725
4.05	Height of tiller handle in drive position min./max	h5	mm	1170/1560		
4.06	Overall length (station board stacked/station board lowered)	L1	mm	1982/2404	2054/2476	2054/2476
4.07	Length including fork shank (station board stacked/station board lowered)	L2	mm	832/1254	904/1326	904/1326
4.08	Overall width	b1	mm	800		
4.09	Fork dimensions	s/e/l	mm	60/185/1150		
4.10	Width across forks	b5	mm	570		
4.11	Ground clearance centre of wheelbase	m2	mm	25		21
4.12	Aisle width (pallet 1000×1200 sideways)	Ast	mm	2405	2480	2480
4.13	Aisle width (pallet 800x1200 length)	Ast	mm	2395	2465	2465
4.14	Turning radius	Wa	mm	1510	1580	1580
Performance data						
5.01	Travel speed laden/unladen (station board stacked&station board lowered)		km/h	6/6 & 8/9	6/6 & 8/9	6/6 & 7/9
5.02	Lift speed laden/unladen		mm/s	160/300	130/260	110/200
5.03	Lowering speed laden/unladen		mm/s	450/370	400/300	260/210
5.04	Max. gradeability laden/unladen (station board stacked&station board lowered)		%	8/16 & 6/16	8/16 & 6/16	6/16 & 6/16
Battery/E-motor						
6.01	Drive motor, performance S2 60 min		kw	3	3	3
6.02	Lift motor, performance with S3		kw	3.2	3.2	4.5
6.03	Battery voltage/nominal capacity		V/Ah	24/205	24/300	24/300
6.04	Battery weight		kg	200	180	180
Other						
7.01	Drive control type			AC		
7.02	Steering type			Electric		
7.03	Sound level at operator's workstation as per EN12053		dB (A)	64		66

* :Standard Configuration Data



WIDE VIEW MAST										
Mast model	Max.lifting height (mm)	Load capacity (load center 600mm) (kg)			Mast height h1 (mm)			Mast weight (kg)		
		1.6t	2t	2.5t	1.6t	2t	2.5t	1.6t	2t	2.5t
M200	2000	1600	2000	2500	1590	1590	1840	410	415	485
M250	2500	1600	2000	2500	1840	1840	1940	440	450	495
M270	2700	1600	2000	2300	1940	1940	2090	460	465	515
M300	3000	1600	2000	2100	2090	2090	2240	480	485	535
M330	3300	1450	1800	1900	2240	2240	2340	495	505	550
M350	3500	1300	1500	/	2340	2340	/	510	520	/
M370	3700	1100	1300	/	2440	2440	/	520	535	/
M400	4000	1000	1200	/	2590	2590	/	565	580	/
M425	4250	900	1100	/	2790	2790	/	580	595	/

WIDE VIEW FULL FREE 3-STAGE MAST										
Mast model	Max.lifting height (mm)	Load capacity (load center 600mm) (kg)		Mast height h1 (mm)		Free lift (with backrest)(mm)		Mast weight (kg)		
		1.6t	2t	1.6t	2t	1.6t	2t	1.6t	2t	
ZSM360	3600	1200	1400	1840	1840	1305	1305	580	585	
ZSM400	4000	1000	1200	1990	1990	1455	1455	610	615	
ZSM435	4350	900	1100	2090	2090	1555	1555	630	635	
ZSM450	4500	800	950	2140	2140	1605	1605	640	645	
ZSM470	4700	750	850	2210	2210	1672	1672	655	660	
ZSM480	4800	700	800	2240	2240	1705	1705	660	665	
ZSM500	5000	650	750	2340	2340	1805	1805	680	685	
ZSM540	5400	600	700	2490	2490	1955	1955	730	735	
ZSM600	6000	550	600	2690	2690	2155	2155	785	790	

note: Mast weight is the standard configuration weight with 1150x570 fork.

Configuration parameter				
		1.6t	2t	2.5t
Load backrest	without load backrest	●	●	●
	804X800	○	○	○
	804X1000	○	○	○
Fork length	1150mm	●	●	●
	1220mm	○	○	○
External dimensions of fork	570mm	●	●	●
	685mm	○	○	○
Mast model	Full free 3-stage mast	○	○	○
	Wide view mast	●	●	●
Lifting height	2000mm	○	○	○
	2500mm	○	○	○
	2700mm	○	○	○
	3000mm	●	●	●
	3300mm	○	○	○
	3500mm	○	○	/
	3600mm	○	○	/
	3700mm	○	○	/
	4000mm	○	○	/
	4250mm	○	○	/
	4350mm	○	○	/
	4500mm	○	○	/
	4700mm	○	○	/
	4800mm	○	○	/
	5000mm	○	○	/
	5400mm	○	○	/
	6000mm	○	○	/

Standard:● Optional :○ Not available: /

		1.6t	2t	2.5t
Battery capacity	24V/300Ah	○	●	●
	24V/350Ah	/	○	○
	24V/205Ah	●	/	/
Tyres	Polyurethane	●	●	●
Startup Options	Universal keys (4 pieces)	●	●	●
	Password lock	○	○	○
	Card	○	○	○
Plates	Plates in Chinese	●	●	●
	Plates in English	○	○	○
	Other languages signage	○	○	○
Rearview mirror	Without rear view mirror	●	●	●
	With rear view mirror	○	○	○
Front lights	No installed	●	●	●
	Install	○	○	○
Warning lights	Without warning lights	●	●	●
	Rotating warning light	○	○	○
	Without rotating buzzer warning light	○	○	○

Standard:● Optional :○ Not available: /