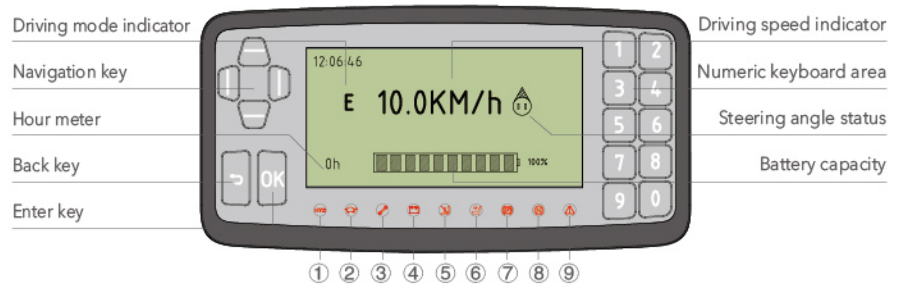
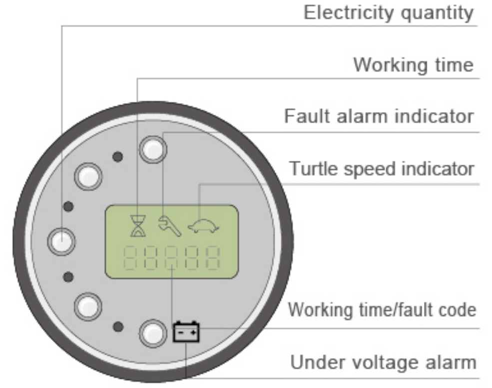
HELI

Reliable special designed instrument



①DC type pump controller fault indicator
②Turtle indicator
③Fault alarm light
④Low electric quantity indicator
⑤Lifting lock indicator
⑥Seat indicator
⑦Parking brake indicator
⑧Neutral indicator
⑨Warning light

Inmotion Display



MDI instrument

Standard configuration	Optional device	
Wide view mast	Boom	Auxiliary hydraulic valve components
Standard fork	Stabilizer	Warning light
Ⅱ（Ⅲ）fork carriage	Widen fork carrier	Tilt cylinder jacket
Fork bracket	Lengthen fork	Colored tires (white/green)
Control valve	Lifting hook	Rear work light
Battery	Crane boom	Wide view full 2/3-stage mast
Standard seat	Push	Steel fence
Overhead guard	Dumping fork	Custom paint
Rain shelter	Fork arm extension	Multi-purpose barrels clamp
Super-elastic solid tyre	Rotating clamp	
Traction bar	Side shifter	
Driver's tool	Roll Clamp	

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63639530(Key Accounts Division); 63639531(Wheel loader)

* Our products are subject to improvements and changes without notice.

Catalog No.190930 Fokell Print

HELI

1.25-1.5 t

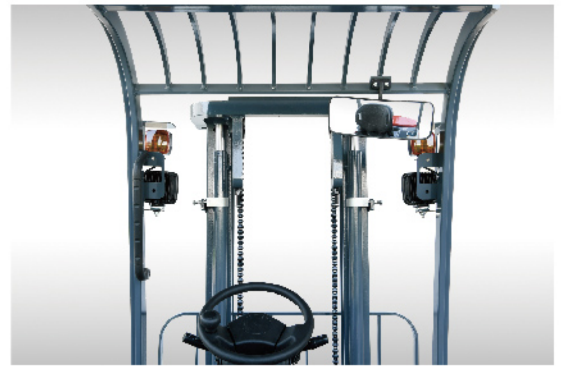
G series Three Wheel AC Electric Forklift Truck (Rear Drive)

www.heliforklift.net

G SERIES 1.25-1.5 t

G series / INTELLIGENT ENVIRONMENT-FRIENDLY

Newly designed wide-view mast



The newly designed wide-view mast enlarges operators' view effectively and reduce the blind area to provide a clearer vision.

Compact structure

The truck structure is compact，small， suitable for operation in narrow area.

Excellent maintenance performance

The lifting and Driving with the AC motor，Front axle with wet brake，free maintenance.

High efficient loading /unloading performance

The newly designed hydraulic system and hydro-cylinder is to provide more efficient loading /unloading performance;

↑33% THE MAXIMUM LIFTING SPEED WITHOUTLOAD IS INCREASED BY 33%

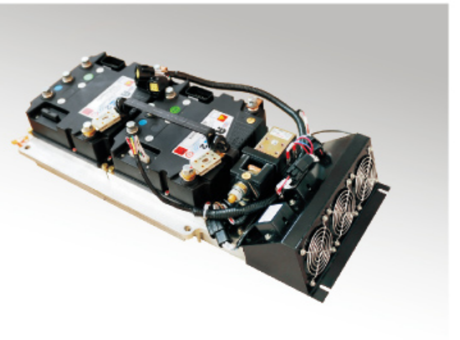
↑16.7% THE MAXIMUM LIFTING SPEED WITH LOAD IS INCREASED BY 16.7%

- ✓ New low-speed & high-torque lifting motor
- ✓ Lifting controller
- ✓ New low-noise gear pump with differential tooth technology
- ✓ New dynamic load sensing technology in hydraulic system

Comfortable operator space

More intelligent performance

- ✓ AC traction controller
- ✓ AC lifting controller
- ✓ Emergency power shut-down
- ✓ Controller self-protecting
- ✓ Standard CAN BUS
- ✓ Self-barking on ramp
- ✓ Preventing disordered operating
- ✓ Operator presence sensing system



New drive syetem

The wonderful combination of AC drive motor and Large ratio gearbox fully enhance the performance of driving; With the use of the renewable energy technology ,the forklift is more efficient and energy-saving.

↑33% THE MAXIMUM DRIVING SPEED WITH LOAD IS INCREASES BY 33%

↑13.6% THE MAXIMUM DRIVING SPEED WITHOUT LOAD IS INCREASES BY 13.6%

G SERIES 1.25-1.5 t

1.25-1.5 t

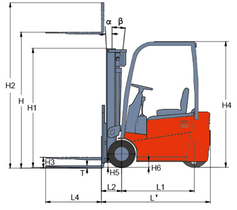
G series Three Wheel AC Electric Forklift Truck

REAR DRIVE

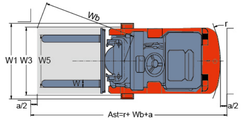
Manufacturer's Data and Design Characteristics

	Characteristics							
1.01	Manufacture's Name			HELI				
1.02	Model Designation			CPD13SH		CPD15SH		
1.03	Configuration Number			GB1/GB3	GB2	GB1/GB3	GB2	
1.04	Load Capacity	Q	kg	1250	1250	1500	1500	
1.05	Load Center	c	mm	500	500	500	500	
1.06	Power Type			Battery	Battery	Battery	Battery	
1.07	Driving type			Seated	Seated	Seated	Seated	
1.08	Wheelbase	L1	mm	1146	1146	1200	1200	
	Wheels & Tyres							
2.01	Tyre Type			Superelastic	Superelastic	Superelastic	Superelastic	
2.02	Number of Wheels (x=driven) ,front/rear			2/1x	2/1x	2/1x	2/1x	
2.03	Tread(centre of tyre),front	W3	mm	840(910*)	840(910*)	840(910*)	840(910*)	
2.04	Tread(centre of tyre),rear	W2	mm	–	–	–	–	
2.05	Tyre Size, Front			18×7–8	18×7–8	18×7–8	18×7–8	
2.06	Tyre Size, Rear			18×7–8	18×7–8	18×7–8	18×7–8	
	Dimensions							
3.01	Front overhang	L2	mm	330	330	330	330	
3.02	Mast Tilt Angle,F/R	α / β	°	3/6	3/6	3/6	3/6	
3.03	Height with Mast Lowered	H1	mm	1955	1955	1955	1955	
3.04	Free Lift	H3	mm	110	110	110	110	
3.05	Standard Lift Height	H	mm	3000	3000	3000	3000	
3.06	Height with Mast Extended	H2	mm	4008	4008	4008	4008	
3.07	Overhead Guard Height	H4	mm	2080	2080	2080	2080	
3.08	Fork Size T×W×L	TxWxL4	mm	35×100×920	35×100×920	35×100×920	35×100×920	
3.09	Fork Carriage to DIN 15173 A/B			2A	2A	2A	2A	
3.10	Length to fork face	L'	mm	1743	1743	1797	1797	
3.11	Overall Width	W1	mm	990(1060*)	990(1060*)	990(1060*)	990(1060*)	
3.12	Outside Turning Radius	r	mm	1413	1413	1467	1467	
3.13	Ground Clearance at mast ,Loaded	H5	mm	90	90	90	90	
3.14	Ground Clearance at centre of wheelbase ,Loaded	H6	mm	100	100	100	100	
3.15	Right angle stacking aisle width (Pallet size 1000x1200mm, clearance 200mm)	Ast	mm	3034	3034	3088	3088	
3.16	Right angle stacking aisle width (Pallet size 1200x1200mm, clearance 200mm)	Ast	mm	3257	3257	3311	3311	
	Performances							
4.01	Travel Speed,with/without load		km/h	12/12.5	12/12.5	12/12.5	12/12.5	
4.02	Lifting Speed,with/without load		mm/s	290/480	290/480	280/480	280/480	
4.03	Lowering Speed,with/without load		mm/s	550/450	550/450	550/450	550/450	
4.04	Gradient performance，with/without load		%	11/18	13/20	10/16	11/18	
4.05	Max. draw bar pull with load		N	7400	7400	7400	7400	
4.06	Acceleration time (10 metres) W/O load		s	4.7/5.0	4.7/5.0	4.7/5.0	4.7/5.0	
	Weight							
5.01	Total Approximate Weight(W/O battery)		kg	2712/2152	2712/2152	2925/2265	2925/2265	
5.02	Axle Loading: Unloaded,Front/Rear		kg	1208/1509	1208/1509	1278/1647	1278/1647	
5.03	Axle Loading: Loaded,Front/Rear		kg	3310/657	3310/657	3754/671	3754/671	
	Battery							
6.01	Battery Voltage/rated capacity K5（min/max）		V/Ah	24/630(630/875)	24/630(630/875)	24/720(720*1000)	24/720(720*1000)	
6.02	battery weight（min/max）		kg	570(570/730)	570(570/730)	660(660/780)	660(660/780)	
6.03	Battery, Din standard			43535A	43535A	43535A	43535A	
	Motor & Controller							
7.01	Drive Motor - 60 Min. Rating		kW	5	5	5	5	
7.02	Pump Motor - S3 15%		kW	6.2	6.2	6.2	6.2	
7.03	Drive Motor Control Method			MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	
7.04	Pump Motor Control Method			MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	
7.05	Service brake/Parking Brake			Hydraulic/Mechanial		Hydraulic/Mechanial		
7.06	Relief Pressure		Mpa	14.5	14.5	17.5	17.5	

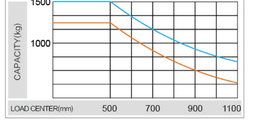
Note:*Stands for widened carbody,3-stage mast Stands for widened carbody,the width is 1060mm.
Detailed information about battery, please contact our salesmen or engineer.



Ast: Right angle stacking aisle width
a: Clearance,200mm



Load curve



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.

BATTERY

Model	Compartment size	Battery Specifications	
	WDxLGxHT	Size of battery box body	Standard
CPD15SH	844*499*655	830*489*627	DIN 43535A
CPD13SH	844*445*655	830*435*627	DIN 43535A

WIDE VIEW MAST

Mast model	Max.lift height (mm)	Capacity at 500mm load center （kg）		Height with mast lowered(mm)	Service weight(kg)		Tilt Angle(α/ β)(°)
		CPD13SH	CPD15SH	1.25- 1.5t	CPD13SH	CPD15SH	
M200	2000	1250	1500	1455	2659	2867	3/6
M250	2500	1250	1500	1705	2688	2896	3/6
M300	3000	1250	1500	1955	2717	2925	3/6
M330	3300	1250	1500	2105	2742	2950	3/6
M350	3500	1250	1500	2205	2759	2967	3/6
M370	3700	1250	1500	2305	2776	2984	3/6
M400	4000	1250	1450	2505	2816	3024	3/6
M425	4250	1250	1350	2630	2830	3038	3/6
M450	4500	1250	1250	2755	2851	3059	3/6
M500	5000	1150	1150	3005	2893	3101	3/3

WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max.lift height (mm)	Capacity at 500mm load center （kg）		Height with mast lowered (mm)	Free lift (With STD backrest) (mm)	Free lift (Without STD backrest) (mm)	Service weight(kg)		Tilt Angle (α/ β)(°)
		CPD13SH	CPD15SH				CPD13SH	CPD15SH	
ZM200	2000	1250	1500	1475	425	825	2721	2929	3/6
ZM250	2500	1250	1500	1725	675	1075	2739	2947	3/6
ZM300	3000	1250	1500	1975	925	1375	2757	2965	3/6
ZM330	3300	1250	1500	2125	1075	1475	2768	2976	3/6
ZM350	3500	1250	1500	2225	1175	1575	2776	2984	3/6
ZM370	3700	1250	1500	2325	1275	1675	2782	2990	3/6
ZM400	4000	1250	1450	2525	1475	1875	2807	3015	3/6

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max.lift height (mm)	Capacity at 500mm load center （kg）		Height with mast lowered (mm)	Free lift (With STD backrest) (mm)	Free lift (Without STD backrest) (mm)	Service weight(kg)		Tilt Angle (α/ β)(°)
		CPD13SH	CPD15SH				CPD13SH	CPD15SH	
ZSM360	3600	1250	1500	1720	640	1050	2894	3102	3/6
ZSM400	4000	1250	1500	1855	775	1185	2921	3129	3/6
ZSM435	4350	1250	1500	1970	890	1300	2943	3151	3/6
ZSM450	4500	1250	1450	2020	940	1350	2953	3161	3/6
ZSM470	4700	1200	1450	2090	1010	1420	2967	3175	3/6
ZSM480	4800	1200	1450	2120	1040	1450	2973	3181	3/6
ZSM500	5000	1150	1400	2225	1145	1555	2998	3206	3/3
ZSM540	5400	1100	1350	2375	1295	1705	3028	3236	3/3
ZSM600	6000	900	1000	2595	1515	1925	3090	3298	3/3

RENEWABLE ENERGY TECHNOLOGIES

With the use of the excellent load-sensing steering system and AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

15%