

HELI

G series



REAR DRIVE
1.25-1.5 t
G Series Three Wheel
AC Electric Forklift Truck(Rear Drive)

STANDARD EQUIPMENT

- Wide view duplex mast
- Standard fork
- I (E) fork carriage
- Fork bracket
- Control valve
- Battery group
- Standard seat
- Overhead guard raincoat
- Super-elastic tyre
- Traction bar
- Relevant tools

OPTIONS AND ATTACHMENTS

- Carrying ram
- Load stabilizer
- Widened fork carriage
- Longer forks
- lifting hook
- Crane boom
- Load operator
- Dumping fork
- Fork extended cover
- Rotating flat holding clip
- Side shifter
- Roll Clamp
- Auxiliary hydraulic valve components
- Beacon
- TIR cylinder jacket
- Colored tires (white/green)
- Rear work light
- Wide-view full 3/3-stage mast
- Steel fence
- User can specify the color
- Multi-purpose barrels clamp



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AUTHORIZED DEALER

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HELI
LIFTING THE FUTURE

G series / INTELLIGENT ENVIRONMENT-FRIENDLY

25 YEARS TOP1 FORKlift MANUFACTURER AND SALES IN CHINA FOR CONSECUTIVE 25 YEARS

G 1.25-1.5t G Series Three Wheel AC Electric Forklift Truck(Rear Drive)

Newly designed wide-view mast



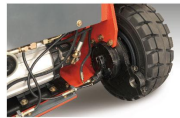
The newly designed wide-view mast engages operators' view effectively and reduce the blind area to provide a clearer vision.

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 WITH LOAD 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 bush 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-heating on ramp
- ✓ Preventing disordered operating
- ✓ Operator presence sensing system



New drive system

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 INCREASED BY 33%

↑ **13.6%** THE MAXIMUM DRIVING SPEED WITHOUT LOAD IS INCREASED BY 13.6%



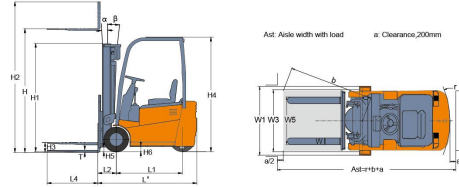
G 1.25-1.5t G Series Three Wheel AC Electric Forklift Truck (Rear Drive)



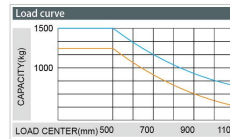
1.25-1.5t
G Series Three Wheel
AC Electric Forklift Truck (Rear Drive)

Manufacturer's Data and Design Characteristics				
Characteristics				
1.01	Manufacturer's Name		HELI	
1.02	Model Designation	CPD13SH	CPD15SH	
1.03	Configuration Number	GB2	GA1/GA2/GA3	GB2
1.04	Load Capacity	Q kg	1250	1500
1.05	Load Center	c mm	500	500
1.06	Power Type		Battery	Battery
1.07	Operator Type		Seated	Seated
1.08	Wheelbase	L1 mm	1146	1200
Wheels & Tyres				
2.01	Type Type		Superelastic	Superelastic
2.02	Number of Wheels (x-driven) / front/rear		2/1x	2/1x
2.03	Tread/centre of tyre front	W3 mm	840 (910*)	840 (910*)
2.04	Tread/centre of tyre rear	W4 mm	-	840 (910*)
2.05	Tyre Size, Front		18 x 7-8	18 x 7-8
2.06	Tyre Size, Rear		18 x 7-8	18 x 7-8
Dimensions				
3.01	Load Distance	L2 mm	330	330
3.02	Max Lift Angle/F.R	α/β °	36°	36°
3.03	Height with Mast Lowered	H1 mm	1955	1955
3.04	Free Lift	H3 mm	110	110
3.05	Standard Lift Height	H mm	3000	3000
3.06	Height with Mast Extended	H2 mm	4008	4008
3.07	Overhead Guard Height	H4 mm	2080	2080
3.08	Fork Size 1-VWL	TxWxL4 mm	35 x 100 x 920	35 x 100 x 920
3.09	Fork Carriage to DIN 15173 A/B	2A	2A	2A
3.10	Length to fork base	L' mm	1743	1797
3.11	Overall Width	W1 mm	990 (1060*)	990 (1060*)
3.12	Outboard Turning Radius	r mm	1413	1467
3.13	Ground Clearance at mast / Loaded	H5 mm	90	90
3.14	Ground Clearance at centre of wheelbase / Loaded	H6 mm	100	100
3.15	Sight Disk Size with Fork size 100x100mm, clearance	Ast mm	3034	3088
3.16	Sight Disk Size with Fork size 100x100mm, clearance 20mm	Ast mm	3257	3311
Performances				
4.01	Travel Speed with/without load	km/h	12/12.5	12/12.5
4.02	Lifting Speed with/without load	m/s	290/480	290/480
4.03	Lowering Speed with/without load	m/s	550/450	550/450
4.04	Gradient performance, with/without load	%	13/20	8/14
4.05	Max. draw bar pull with load	N	2400	7000
4.06	Acceleration time (10 metres) W/O load	s	4.75/0	4.75/0
Weight				
5.01	Total Approximate Weight(W/O battery)	kg	2684/2119	2897/2237
5.02	Axle Loading: Unloaded, Front/Rear	kg	1196/1488	1252/1645
5.03	Axle Loading: Loaded, Front/Rear	kg	3352/582	3790/607
Battery				
6.01	Battery Voltage/nominal capacity K ₂ (min/max)	V/Ah	24/630 (630/875)	24/720 (720/1000)
6.02	battery weight (min/max)	kg	570 (570/730)	660 (650/750)
6.03	Battery to DIN 43531/35/36 A/B/C		43535A	43535A
Motor & Controller				
7.01	Drive Motor - 60 Min. Rating	kW	5	4.2
7.02	Pump Motor - 15 Min. Rating	kW	6.2	6.2
7.03	Drive Motor Control Method		MOSFET/AC	MOSFET/AC
7.04	Pump Motor Control Method		MOSFET/AC	MOSFET/AC
7.05	Service Brake/Parking Brake		Hydraulic/Mechanical	Hydraulic/Mechanical
7.06	Oil/Fuel Pressure	MPa	14.5	17.5

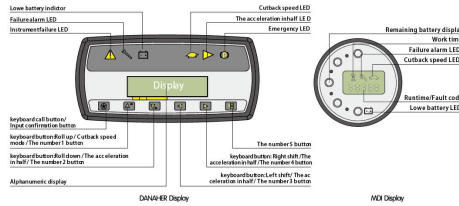
*Stands for welded carbody, 3-stage mast. Stands for welded carbody, the width is 1000mm.



Act: Area with load α: Clearance, 200mm



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 load capacity of standard mast at different load center can be known from this load chart.



BATTERY			
Model	Compartment size	Battery Specifications	Standard
CPD15SH	844*489*655	830*489*627	DIN 43535A
CPD13SH	844*446*655	830*446*627	DIN 43535A

WIDE VIEW MAST					
Mast model	Max lift height (mm)	Capacity at 500mm load center (kg)	Height with mast lowered (mm)	Tilt Angle (°/P.R.)	
M200	2000	1250	1500	1455	3/8
M250	2500	1250	1500	1705	3/8
M300	3000	1250	1500	1955	3/8
M330	3300	1250	1500	2105	3/8
M350	3500	1250	1500	2205	3/8
M370	3700	1250	1500	2305	3/8
M400	4000	1250	1450	2505	3/8
M425	4250	1250	1350	2630	3/8
M450	4500	1250	1250	2745	3/8
M500	5000	1150	1150	3005	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 W/W (STD) (mm)	Free W/W (COL) (mm)	Tilt Angle (°/P.R.)
ZM200	2000	1250	1500	1475	825	3/8
ZM250	2500	1250	1500	1725	1075	3/8
ZM300	3000	1250	1500	1975	1325	3/8
ZM330	3300	1250	1500	2125	1475	3/8
ZM350	3500	1250	1500	2225	1575	3/8
ZM370	3700	1250	1500	2325	1675	3/8
ZM400	4000	1250	1450	2525	1875	3/8

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 W/W (STD) (mm)	Free W/W (COL) (mm)	Tilt Angle (°/P.R.)	
Z3M300	Z3M350	1250	1500	1720	940	1050	3/8
Z3M400	Z3M450	1250	1500	1955	1165	1285	3/8
Z3M415	Z3M450	1250	1500	1970	890	1300	3/8
Z3M415	Z3M450	1250	1450	2020	940	1300	3/8
Z3M470	Z3M470	1200	1450	2090	1010	1420	3/8
Z3M480	Z3M480	1200	1450	2120	1040	1450	3/8
Z3M490	Z3M490	1100	1400	2220	1140	1500	3/8
Z3M440	Z3M460	1100	1350	2315	1265	1700	3/3
Z3M400	Z3M400	900	1000	2565	1515	1925	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%
THE PERFORMANCE OF BATTERY RESERVE