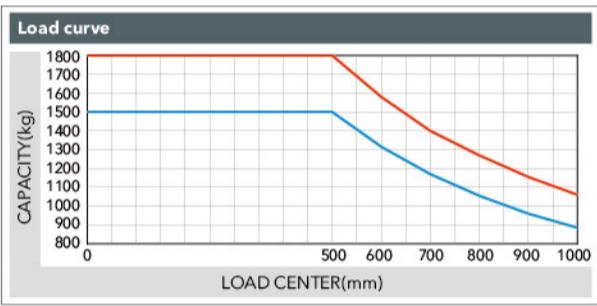


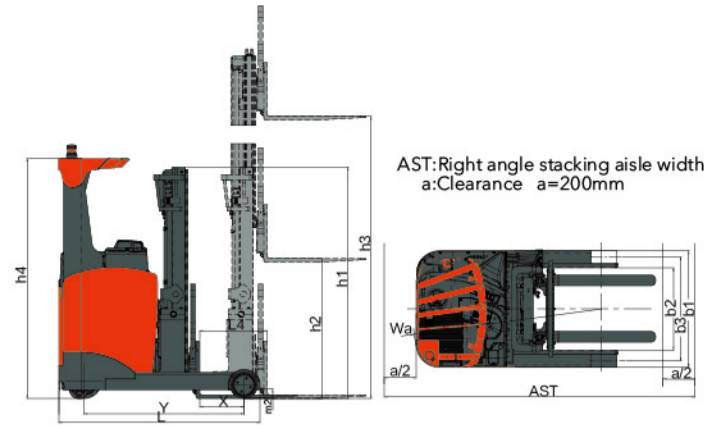
Manufacturer's Data and Design Characteristics

Character		HELI	
1.01	Manufacturer	HELI	
1.02	Model	CQD15	CQD18
1.03	Configuration number	GB2R/GB3R/GC2R/GC3R	GB2R/GB3R/GC2R/GC3R
1.04	Load capacity	Q kg	1500 1800
1.05	Load center distance	C mm	500
1.06	Power mode		Battery
1.07	Driving mode		Stand-on
1.08	Wheel base	Y mm	1335 1500
Type			
2.01	Tyre type	Polyurethane	
2.02	Wheel number, drive/caster/load (X=drive wheel)	1x2/2	
2.03	Track Width, load	b3 mm	976
2.04	Wheel size, load		e254x114
2.05	Wheel size, drive		e330x114
2.06	Wheel size, caster		e178x76
Size			
3.01	Lift height	h3 mm	3100 3100
3.02	Free lift	h2 mm	85 85
3.03	Mast height, lowered	h1 mm	2170 2170
3.04	Fork size, thickness/width/length	s/e/l mm	35x100x920 35x100x920
3.05	Fork adjusting width		200~628
3.06	Fork sideshifting		±55 ±55
3.07	Truck body length(fork excluded)	L mm	1721 1886
3.08	Truck body width	b1 mm	1090 1090
3.09	Distance between support arms	b2 mm	772 772
3.10	Reach distance	l4 mm	550 635
3.11	Height of overhead guard	h4 mm	2250 2250
3.12	Ground clearance, below mast	m2 mm	80 80
3.13	Turning radius	Wa mm	1615 1775
3.14	Distance from fork front tip to center of load wheel	X mm	329 414
3.15	Aisle width with pallet 1100Lx1100W, clearance 200	Ast mm	2760 2855
3.16	Aisle width with pallet 1000Lx1100W, clearance 200	Ast mm	2680 2775
Performance			
4.01	Travelling speed, with/without load	km/h	10/10.5 10/10.5
4.02	Lifting speed, with/without load	m/s	0.31/0.5 0.3/0.5
4.03	Lowering speed, with/without load	m/s	0.5/0.5 0.5/0.5
4.04	Reach speed, with/without load	m/s	0.11/0.11 0.11/0.11
4.05	Maximum climbing ability, with/without load	%	10/15 10/15
Weight			
5.01	Total weight(with battery)	kg	2440 2490
Battery			
6.01	Battery voltage/capacity k5	V/Ah	48/345 48/360
6.02	Battery weight	kg	630 675
6.03	Battery box dimension	mm	1020x359x629 1020x439x629
Motor and controller			
7.01	Drive motor power	kw	5 5
7.02	Lifting motor power	kw	10 10
7.03	Steering motor power	kw	0.6 0.6
7.04	Type of driving control		MOSTET/AC
7.05	Type of lifting control		MOSTET/AC
7.06	Type of steering control		MOSTET/AC
7.07	Transmission box		HELI special transmission box
7.08	Service brake		Electrical
7.09	Hydraulic system working pressure	Mpa	16.5 18.5

NOTE: Detailed information about battery, please contact our salesman or engineer.



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.



↑15%
THE PERFORMANCE OF BATTERY INCREASES

Renewable energy technologies

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

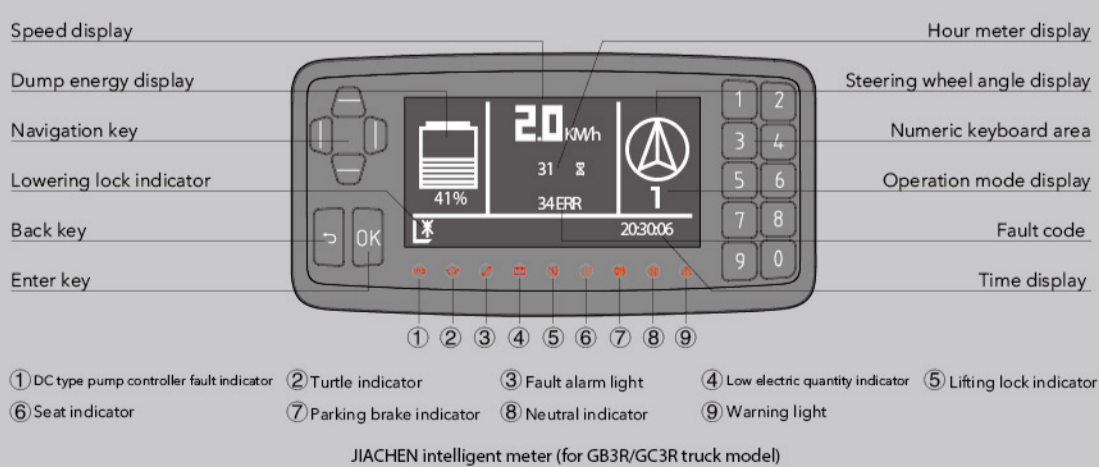
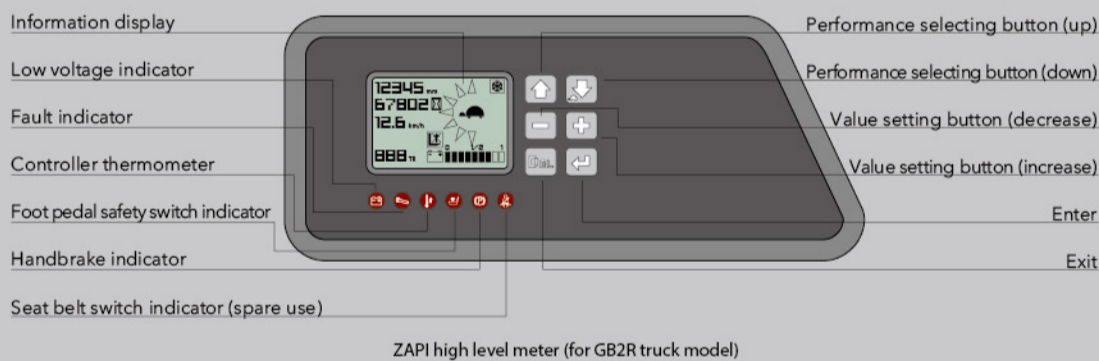
Configuration number	Configuration
GB2R	Solenoid valve
	Thumb switch control hydraulic functions
	ZAPI travelling motor controller
	ZAPI lifting motor controller
GB3R	ZAPI steering motor controller
	Solenoid valve
	Thumb switch control hydraulic functions
	Inmotion travelling motor controller
GC2R	Inmotion lifting motor controller
	Inmotion steering motor controller
	Manually operated valve
	Mechanical handle control hydraulic functions
GC3R	ZAPI travelling motor controller
	ZAPI lifting motor controller
	ZAPI steering motor controller
	Manually operated valve

Mast model	Lifting height (h3)(mm)		Free lifting height (h2)(mm)		Mast height, lowered (h1)(mm)		Load capacity (kg)		Mast tilt angle (front/rear) α / β
	CQD15	CQD18	CQD15	CQD18	CQD15	CQD18	CQD15	CQD18	
ZSM360	3600	3600	799	799	1830	1830	1500	1800	3°/5°
ZSM400	4000	4000	932	932	1963	1963	1500	1800	3°/5°
ZSM440	4400	4400	1066	1066	2097	2097	1450	1700	3°/5°
ZSM500	5000	5000	1281	1281	2312	2312	1400	1550	2°/2°
ZSM540	5400	5400	1449	1449	2480	2480	1100	1300	2°/2°
ZSM600	6000	6000	1649	1649	2680	2680	900	1050	2°/2°
ZSM650	6500	6500	1816	1816	2847	2847	700	850	2°/2°

Mast model	Lifting height (h3)(mm)		Free lifting height (h2)(mm)		Mast height, lowered (h1)(mm)		Load capacity (kg)		Mast tilt angle (front/rear) α / β
	CQD15	CQD18	CQD15	CQD18	CQD15	CQD18	CQD15	CQD18	
M200	2000	2000	85	85	1620	1620	1500	1800	3°/5°
M250	2500	2500	85	85	1870	1870	1500	1800	3°/5°
M290	2900	2900	85	85	2070	2070	1500	1800	3°/5°
M310	3100	3100	85	85	2170	2170	1500	1800	3°/5°
M340	3400	3400	85	85	2320	2320	1500	1800	3°/5°
M360	3600	3600	85	85	2420	2420	1500	1800	3°/5°
M380	3800	3800	85	85	2520	2520	1500	1800	3°/5°
M400	4000	4000	85	85	2670	2670	1500	1800	3°/5°
M420	4200	4200	85	85	2770	2770	1450	1700	3°/5°
M440	4400	4400	85	85	2870	2870	1450	1700	3°/5°
M500	5000	5000	85	85	3220	3220	1400	1550	2°/2°
M540	5400	5400	85	85	3420	3420	1100	1300	2°/2°

HELI

The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.



* Details of specifications and equipment are based on information available at time of printing and may change without notice.



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63639531 (Wheel loader)
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AUTHORIZED DEALER

1.5-1.8t

G2 series

G2 series / INTELLIGENT ENVIRONMENT-FRIENDLY

G2 SERIES AC ELECTRIC REACH TRUCK (STAND-ON TYPE)

FEATURES OF THE COMPLETED TRUCK

Three phase AC type motor technology

- > Three phase AC type motor control on travelling, lifting and steering
- > Good acceleration
- > Fast and sensitive respond on travel direction shifting
- > Free from maintenance motor without carbon brush having long service life and low maintenance cost. Energy regenerating during deceleration extending operation hours

Newly designed hydraulic system

- > Newly designed hydraulic system with high working efficiency
- > High power lifting motor
- > MOSTET lifting speed governing electric controller
- > New type low noisy gear pump, high efficiency and long life
- > Max. lifting speed without load 22% increased
- > Max. lifting speed with load 19% increased

Optimized intelligent design

- > CAN bus technology
- > Parking brake on slope
- > Operation sequence protection
- > Travelling speed control
- > Lifting speed control
- > Electric controller self protection
- > Footswitch interlink with travelling

Advanced EPS electric powered steering

- > EPS electric power steering offering easy, flexible, high efficient and mute operation
- > Steering motor controller
- > Automatic centering function
- > Automatic limit on speed and accelerated speed when steering

Easy operated thumb switch

- > To control travelling functions
- > Clear operating units

Five independent braking systems

- > Current regenerating brake when releasing acceleration hand shank
- > Emergency brake activated by releasing foot switch
- > Parking brake activated by pressing button on the panel
- > Automatic activated parking brake
- > Emergency switch



Comfort cab

- > The driver's body is fully protected within the truck contours
- > Padded waist, head and arm supports
- > Easy reach to important operation

Overhead guard

- > Overhead guard support for improved operator protection and enhanced visibility to the load
- > Fence on top of the overhead guard offering driver wide view
- > Beveled view angle design with front ring beam meeting humanized requirements

Displayer

- > High quality meter displaying important operating data
- > 180° steering angle position display
- > Display of battery power and fault code
- > Travelling mode selection
- > Lifting lock indication
- > Hour meter
- > Labor hour display

Wide view mast

- > Good view when loaded
- > Integral sideshifter
- > High residual load capacity at high lift height
- > Buffering on lifting limit
- > Buffering on mast moving forward and backward limit
- > Lift height range: 2000-6500mm

Standard configuration

- AC travelling motor
- AC Lifting motor
- AC steering motor
- Electrical brake
- DC/DC converter
- Low noisy gear pump
- Control valve(four throw)
- 3100mm two-stage mast
- Integral sideshifter
- Standard fork
- Backrest
- Polyurethane tyre
- LED meter
- Front working light
- Vertical battery change
- Warning light

Optional device

- Three-stage full free lift mast
- Two-stage mast(other lifting height)
- Fork with other length
- Fork extension
- Monitoring system
- Other battery
- Battery charger
- Alternative colour schemes
- Battery on rollers for rapid side battery change
- Battery roller stand





2-2.5 t

**G2 SERIES AC ELECTRIC
REACH TRUCK (STAND-ON TYPE)**

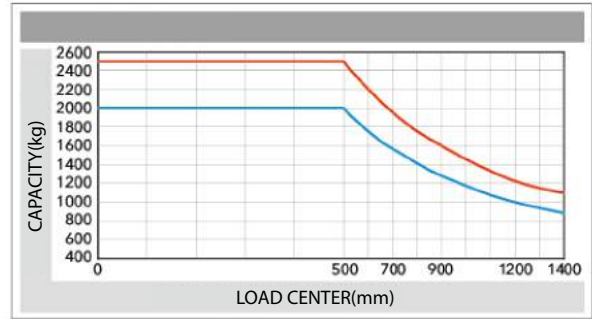
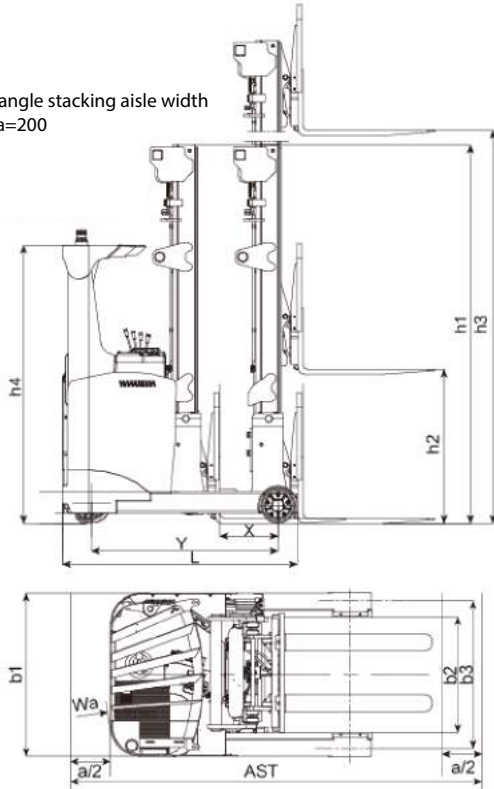
HELIFORKLIFT.CA

Manufacturer's Data and Design Characteristics

Character					
1.01	Manufacturer			HELI	
1.02	Model			CQD20	CQD25
1.03	Configuration number			GC2R	GC2R
1.04	Load capacity	Q	kg	2000	2500
1.05	Load center distance	C	mm	500	
1.06	Power mode			Battery	
1.07	Driving mode			Stand-on	
1.08	Wheel base	Y	mm	1515	1685
Tire					
2.01	Tire type			Polyurethane	
2.02	Wheel number, drive/caster/load (X=drive wheel)			1x/2/2	
2.03	Track Width,load	b3	mm	1078	
2.04	Wheel size, load		mm	ø285x100	
2.05	Wheel size, drive		mm	ø330x114	
2.06	Wheel size, caster		mm	ø178x76	
Size					
3.01	Lift height	h3	mm	3300	3300
3.02	Free lift	h2	mm	80	80
3.03	Mast height, lowered	h1	mm	2424	2424
3.04	Fork size, thickness/width/length	s/e/l	mm	40x122x920	40x122x1070
3.05	Fork adjusting width		mm	244~722	244~722
3.06	Fork sideshifting		mm	±55	±55
3.07	Truck body length(fork excluded)	L	mm	1906	2076
3.08	Truck body width	b1	mm	1190	1190
3.09	Distance between support arms	b2	mm	846	846
3.10	Reach distance	l4	mm	675	845
3.11	Height of overhead guard	h4	mm	2250	2250
3.12	Ground clearance,below mast	m2	mm	83	83
3.13	Turning radius	Wa	mm	1795	1965
3.14	Distance from fork front tip to center of load wheel	X	mm	467	637
3.15	Aisle width with pallet 1100L x 1100W, clearance 200	Ast	mm	2835	2885
3.16	Aisle width with pallet 1000L x 1100W, clearance 200	Ast	mm	2760	2825
Performance					
4.01	Travelling speed,with/without load		km/h	10/11.5	10/11.5
4.02	Lifting speed,with/without load		m/s	0.3/0.45	0.27/0.45
4.03	Lowering speed,with/without load		m/s	0.5/0.45	0.5/0.45
4.04	Reach speed,with/without load		m/s	0.1/0.1	0.1/0.1
4.05	Maximum climbing ability,with/without load		%	10/15	10/15
Weight					
5.01	Total weight(with battery)		kg	3200	3250
Battery					
6.01	Battery voltage/capacity k5		V/Ah	48/420	48/450
6.02	Battery weight		kg	750	780
6.03	Battery box dimension		mm	1035x352x784	11035x352x784
Motor and controller					
7.01	Drive motor power		kw	5	5
7.02	Lifting motor power		kw	10	10
7.03	Steering motor power		kw	0.6	0.6
7.04	Type of driving control			MOSTET/AC	
7.05	Type of lifting control			MOSTET/AC	
7.06	Type of steering control			MOSTET/AC	
7.07	Transmission box			HELI special transmission box	
7.08	Service brake			Electrical	

NOTE: Detailed information about battery,please contact our salesmen or engineer.

AST: Right angle stacking aisle width
Clearance a=200



Note: The vertical axis stand for load capacity and the horizontal axis stand for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load mean a cubic with 1000mm edge length. When mast is tilted forward, using non-standard fork 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.

Configuration number	Configuration
GC2R	Manually operated valve
	Mechanical handle control hydraulic functions
	ZAPI travelling motor controller
	ZAPI lifting motor controller
	ZAPI steering motor controller

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Lifting height (mm)		Free lifting height(mm)		Mast height, lowerd(mm)		Load capacity(kg)		Mast tilt angle (front/rear) α / β
	CQD20	CQD25	CQD20	CQD25	CQD20	CQD25	CQD20	CQD25	
ZSM360	3600	3600	980	980	2005	2005	2000	2500	2°/4°
ZSM400	4000	4000	1110	1110	2138	2138	2000	2500	2°/4°
ZSM430	4300	4300	1210	1210	2238	2238	1900	2400	2°/4°
ZSM460	4600	4600	1310	1310	2338	2338	1900	2400	2°/4°
ZSM480	4800	4800	1380	1380	2405	2405	1800	2300	2°/4°
ZSM540	5400	5400	1580	1580	2605	2605	1500	2000	2°/4°
ZSM570	5700	5700	1680	1680	2705	2705	1450	1950	2°/4°
ZSM600	6000	6000	1780	1780	2805	2805	1400	1900	2°/4°
ZSM650	6500	6500	1947	1947	2972	2972	1300	1800	2°/4°

WIDE VIEW MAST

Mast model	Lifting height (mm)		Free lifting height(mm)		Mast height, lowerd(mm)		Load capacity(kg)		Mast tilt angle (front/rear) α / β
	CQD20	CQD25	CQD20	CQD25	CQD20	CQD25	CQD20	CQD25	
M250	2500	2500	80	80	2024	2024	2000	2500	2°/4°
M270	2700	2700	80	80	2124	2124	2000	2500	2°/4°
M300	3000	3000	80	80	2274	2274	2000	2500	2°/4°
M330	3300	3300	80	80	2424	2424	2000	2500	2°/4°
M360	3600	3600	80	80	2574	2574	2000	2500	2°/4°
M400	4000	4000	80	80	2774	2774	2000	2500	2°/4°
M430	4300	4300	80	80	2924	2924	1900	2400	2°/4°
M460	4600	4600	80	80	3074	3074	1900	2400	2°/4°
M500	5000	5000	80	80	3274	3274	1800	2300	2°/4°
M540	5400	5400	80	80	3474	3474	1500	2000	2°/4°

G2 series 2-2.5 t

Three phase AC type motor technology

- Three phase motor AC type motor control on travelling, lifting and steering
- Good acceleration
- Fast and sensitive respond on travel direction shifting
- Free from maintenance motor without carbon brush having long service life and low maintenance cost
- Energy regenerating during deceleration extending operation hours

Newly designed hydraulic system

- Newly designed hydraulic system with high working efficiency
- High power lifting motor
- MOSFET lifting speed governing electric controller
- New type noisy gear pump, high efficiency and long life

Optimized intelligent design

- CAN bus technology
 - Parking brake on slope
 - Operation sequence protection
 - Travelling speed control
 - Lifting speed control
 - Electric controller self protection
 - Dead-man footswitch traction interlock
-

Advanced EPS electric powered steering

- EPS electric powered steering offering easy, flexible, high efficient and mute operation
 - Steering motor controller
 - Automatic centering function
 - Automatic limit on speed and accelerated speed when steering
-

Easy operated thumb switch

- To control travelling functions
 - Clear operating units
-

Six independant braking systems

- Automatic braking when accelerator lever is released
- Emergency brake activated by releasing footswitch
- Parking brake activated by pressing button on the panel
- Automatic hold-on brake
- Parking brake activated by hydraulic control lever
- Emergency isolator



Comfort cab

- The driver's body is fully protected within the truck contours
- Padded waist, head and arm supports
- Easy reach to important operation

Overhead guard

- Overhead guard support for improved operator protection and enhanced visibility to the load
- Fence on top of the overhead guard offering driver wide view
- Beveled view angle design with front ring beam meeting humanized requirements

Displayer

- High quality meter displaying important operating data
- 180° steering angle position display
- Display of battery power and fault code
- Travelling mode selection
- Lifting lock indication
- Hour meter
- Labor hour display

Standard configuration

AC travelling motor
AC lifting motor
AC steering motor
Electrical brake
DC/DC converter
Low noisy gear pump
Control valve (four throw)
3300mm two-stage mast
Integral sideshifter
Standard fork
Backrest
Polyurethane tire
LED meter
Front working light
Vertical battery change
Warning light

Optional device

Three-stage full free lift mast
Two-stage mast
Fork with other length
Fork extension
Monitoring system
Other battery
Battery charger
Alternative colour scheme
Battery on roller for rapid side battery change



Wide view mast

- Good view when loaded
- Integral sideshifter
- High residual load capacity at high lift height
- Buffering on lifting limit
- Buffering on mast moving forward and backward limit
- Fork tilt
- Lift height range:2500-6500mm



Reliable special designed instrument

Information display

Low voltage indicator

Fault indicator

Hour meter

Enter

Performance selecting button (up)

Performance selecting button (down)

Battery electric quantity indicator

For spare

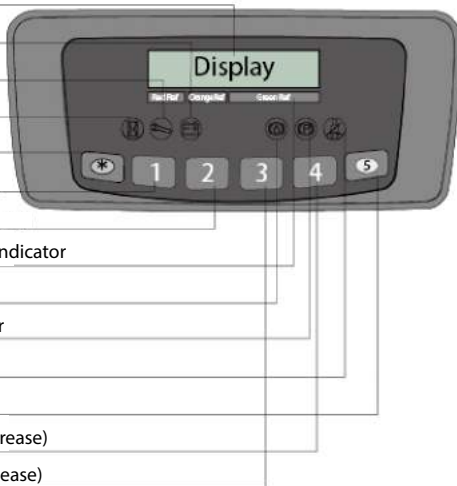
Handbrake state indicator

Safety switch indicator

Exit

Value setting button (decrease)

Value setting button (increase)



ZAPI standard type meter (for GC2R model)

The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.

HELI smart fleet management system (optional)

- Vehicle positioning
- Remote diagnosis
- Remote monitoring
- Maintenance reminder
- Battery management
- Statistical form
- Vehicle management
- Identification recognition (optional)
- Weight management (optional)
- Collision management (optional)



RENEWABLE ENERGY TECHNOLOGIES

With the use of AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%



15%

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