

HELI

1.5-1.8 t

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

Fork tilt



heliforklif.ca



Comfort cab

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

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

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

Standard configuration

AC travelling motor
 AC Lifting motor
 AC steering motor
 Electrical brake
 DC/DC converter
 Low noisy gear pump
 Control valve(four throw)
 3200mm two-stage mast
 Integral sideshifter
 Standard fork
 Backrest
 Polyurethane tyre
 LED meter
 Front working light
 Vertical battery change
 Warning light
 Rearview mirror
 Blue spotlight
 Mechanical lever operation
 Thumb switch operation
 Fork tilting

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
 Lifting height pre-selector*
 Electronic control handle*

* Only to the reach truck that configuration number is GD2R



Wide view mast

- Good view when loaded
- Integral sideshifter
- High residual load capacity at high lift height
- Buffering during lifting and lowering
- Buffering on lifting and lowering limit
- Buffering on mast moving forward and backward limit

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)



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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
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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

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
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Advanced EPS electric powered steering

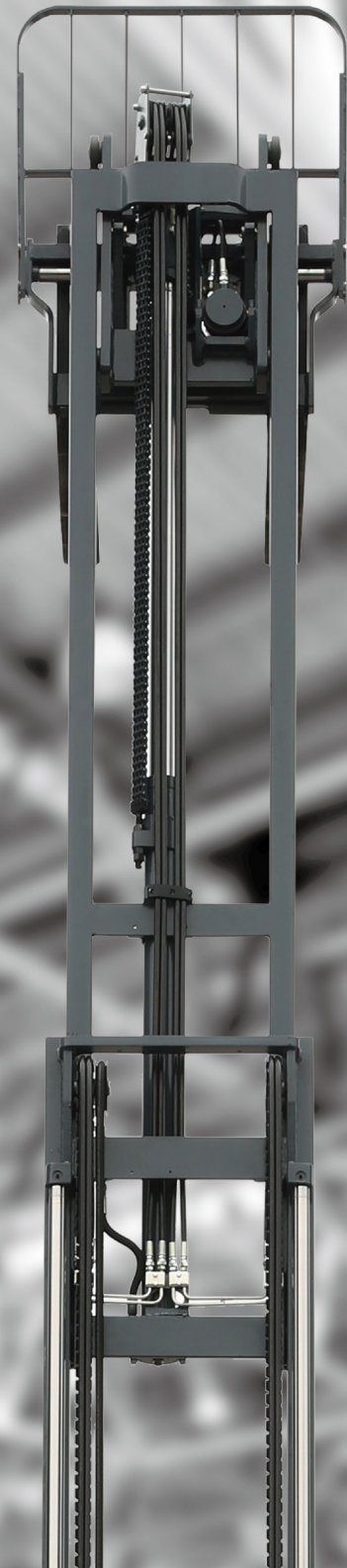
- EPS electric powerd steering offering easy, flexible, high efficient and mute operation
 - Steering motor controller
 - Automatic centering function
 - Automatic limit on speed and accelerated speed when steering
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Easy operated thumb switch

- To control travelling functions
 - Clear operating units
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Five independent braking systems

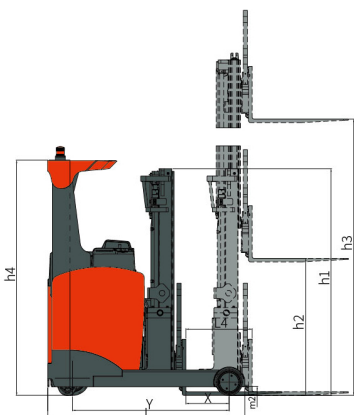
- Automatic braking when accelerator lever is released
- Emergency brake activated by releasing foot switch
- Parking brake activated by pressing button on the panel
- Automatic hold-on brake
- Emergency isolator



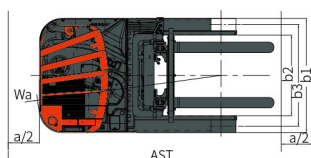
Manufacturer's Data and Design Characteristics

| Character | | | | HELI | | | |
|----------------------|--|-------|------|-------------------------------|------|--------------|------|
| 1.01 | Manufacturer | | | HELI | | | |
| 1.02 | Model | | | CQD15 | | CQD18 | |
| 1.03 | Configuration number | | | GD2R | GE2R | GD2R | GE2R |
| 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 | |
| Tyre | | | | | | | |
| 2.01 | Tyre type | | | Polyurethane | | | |
| 2.02 | Wheel number, drive/caster/load(X=drive wheel) | | | 1x/2/2 | | | |
| 2.03 | Track Width,load | b3 | mm | 976 | | | |
| 2.04 | Wheel size, load | | mm | ø254x114 | | | |
| 2.05 | Wheel size, drive | | mm | ø330x114 | | | |
| 2.06 | Wheel size, caster | | mm | ø178x76 | | | |
| Size | | | | | | | |
| 3.01 | Lift height | h3 | mm | 3200 | | 3200 | |
| 3.02 | Free lift | h2 | mm | 115 | | 115 | |
| 3.03 | Mast height, lowered | h1 | mm | 2355 | | 2355 | |
| 3.04 | Fork size, thickness/width/length | s/e/l | mm | 35x100x920 | | 35x100x920 | |
| 3.05 | Fork adjusting width | | mm | 200~628 | | 200~628 | |
| 3.06 | Fork sideshifting | | mm | ±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 | 2595 | | 2645 | |
| 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 salesmen or engineer.



AST: Right angle stacking aisle width
a: Clearance a=200mm

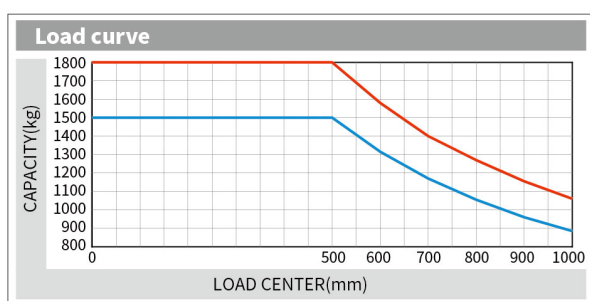


RENEWABLE ENERGY TECHNOLOGIES

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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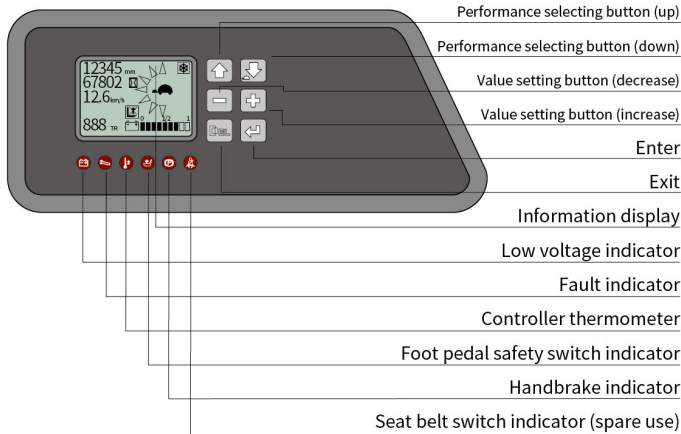
Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or 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 VIEW FULL FREE 3-STAGE MAST

| Mast model | h3 Lifting height (mm) | | h2 Free lifting height(mm) | | h1 Mast height, lowerd(mm) | | Load capacity(kg) | | Fork tilt angle (front/rear) α/β |
|------------|---------------------------|-------|-------------------------------|-------|-------------------------------|-------|-------------------|-------|--|
| | CQD15 | CQD18 | CQD15 | CQD18 | CQD15 | CQD18 | CQD15 | CQD18 | |
| ZSM460 | 4600 | 4600 | 1280 | 1280 | 2319 | 2319 | 1400 | 1700 | 2°/4° |
| ZSM480 | 4800 | 4800 | 1340 | 1340 | 2386 | 2386 | 1400 | 1700 | 2°/4° |
| ZSM540 | 5400 | 5400 | 1540 | 1540 | 2586 | 2586 | 1250 | 1450 | 2°/4° |
| ZSM570 | 5700 | 5700 | 1640 | 1640 | 2686 | 2686 | 1150 | 1350 | 2°/4° |
| ZSM600 | 6000 | 6000 | 1740 | 1740 | 2786 | 2786 | 1050 | 1250 | 2°/4° |
| ZSM630 | 6300 | 6300 | 1840 | 1840 | 2886 | 2886 | 950 | 1150 | 2°/4° |
| ZSM650 | 6500 | 6500 | 1905 | 1905 | 2953 | 2953 | 850 | 1050 | 2°/4° |
| ZSM675 | 6750 | 6750 | 1940 | 1940 | 2987 | 2987 | 750 | 950 | 2°/4° |

WIDE VIEW MAST

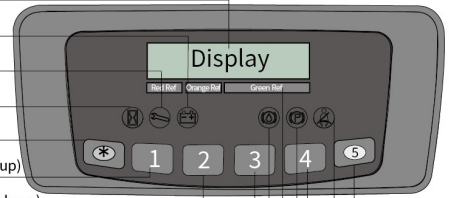
| Mast model | h3 Lifting height (mm) | | h2 Free lifting height(mm) | | h1 Mast height, lowerd(mm) | | Load capacity(kg) | | Fork tilt angle (front/rear) α/β |
|------------|---------------------------|-------|-------------------------------|-------|-------------------------------|-------|-------------------|-------|--|
| | CQD15 | CQD18 | CQD15 | CQD18 | CQD15 | CQD18 | CQD15 | CQD18 | |
| M290 | 2900 | 2900 | 100 | 100 | 2205 | 2205 | 1500 | 1800 | 2°/4° |
| M320 | 3200 | 3200 | 100 | 100 | 2355 | 2355 | 1500 | 1800 | 2°/4° |
| M360 | 3600 | 3600 | 100 | 100 | 2555 | 2555 | 1500 | 1800 | 2°/4° |
| M380 | 3800 | 3800 | 100 | 100 | 2655 | 2655 | 1500 | 1800 | 2°/4° |
| M400 | 4000 | 4000 | 100 | 100 | 2755 | 2755 | 1500 | 1800 | 2°/4° |
| M420 | 4200 | 4200 | 100 | 100 | 2855 | 2855 | 1450 | 1750 | 2°/4° |
| M440 | 4400 | 4400 | 100 | 100 | 2955 | 2955 | 1400 | 1700 | 2°/4° |
| M460 | 4600 | 4600 | 100 | 100 | 3055 | 3055 | 1400 | 1700 | 2°/4° |
| M500 | 5000 | 5000 | 100 | 100 | 3255 | 3255 | 1350 | 1550 | 2°/4° |



- Performance selecting button (up)
- Performance selecting button (down)
- Value setting button (decrease)
- Value setting button (increase)
- Enter
- Exit
- Information display
- Low voltage indicator
- Fault indicator
- Controller thermometer
- Foot pedal safety switch indicator
- Handbrake indicator
- Seat belt switch indicator (spare use)

ZAPI high level meter (for GD2R truck model)

- 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 GE2R 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.

| Configuration number | Configuration |
|--------------------------------|---|
| GD2R | Solenoid valve |
| | Thumb switch control hydraulic functions |
| | ZAPI travelling motor controller |
| | ZAPI lifting motor controller |
| | ZAPI steering motor controller |
| GE2R | Fork tilting |
| | Manually operated valve |
| | Mechanical handle control hydraulic functions |
| | ZAPI travelling motor controller |
| | ZAPI lifting motor controller |
| ZAPI steering motor controller | |
| | Fork tilting |



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