www.heliforklift.net

HELI

1.35-2 t

G Series Narrow-Aisle Reach Truck



Comfortable

- Side battery extraction and battery rollers come standard making for easier battery replacement
- Integrated, Intelligent control handle is convenient and comfortable to use
- With proportional hydraulic control, working is more stable and more precise
- Electronic power steering offer easy, flexible, high efficient and quite operation
- Steering is centers itself automatically on startup for a safer operation

Energy efficiency

- With proportional controls, the truck is more energy efficient and has lower energy consumption
- All LED lights reduce lighting energy consumption by 80%
- Drive motor regenerative braking recycles more electric energy
- Electronic steering is more efficient saving energy

Working efficiency

- Small turning radius makes steering flexible and easy
- Smaller load wheels easier to maneuver into the bottom of the shelf

With optimal driving and lifting speeds, better working efficiency can be achieved

With HELI's three speed modes, higher performance can be achieved

Larger battery capacity for longer single shift time

Bettering loading capacity and stability at higher lift heights

Maintainability

- Door,top cover and front all can be removed easily to allow great access to all chassis components for quick and easy maintenance

With bolt type load wheel box installation, outrigger&load wheel maintenance are convenient and less costly



Safety

HELI's Intelligent control system automatic decelerates in sharp turns for safer opertion

Parking brake is automatically applied on a slope or flat surface via a magnetic brake on the drive axle

Parking brake can also be activated by pressing button on the panel

Parking brake automatically activated when operator leave truck

Warning light and drive OPS system come standard to ensure complete truck safety

Regenerative braking provides extra power back to the electrical system releasing when the control handles is released

Emergency stop switch disengages power and applies brake automatically

Emergency brake is activated by releasing foot pedal





Wide view mast and pantograph

- Comes standard with shift, tilt and reach funtions
- Newly designed wide-view mast
- Pantograph maximize operator' s view effectively when forks are retracted and extended
- Lift cylinder has end stroke cushions,while the controller provides in transit butters to ensure smooth lifting and lowering funtions
- The controller also provides in transit and end stroke butters for smooth the fork retract funtion

Overhead guard

- The large arc shape of the overhead guard and properly angled grid slats greatly increase operator' s upward view
- Rear leg connected to the chassis suspension, provide shock buffering from falling loads
- Without front legs, work view is improved



Comfortable operator's compartment

- Comfortable step height provides ease of access to operator's compartment while providing safety from the risk of pallet truck forks tip intrusion
- Padded waist and arm supports for operator's comfort
- Cushioned floorboard helps reduce operator for fatigue
- The operator's body is fully protected whthin the truck contours

Operator display panel

- High quality meter displaying clearly the important operating data
- 180°steering angle position display
- Display of battery power and fault code
- Working mode selection
- Hour meter
- Labor hour display





MANUFACTURER' S DATA AND DESIGN CHARACTERISTICS

	Characteristics									
1.01	Manufacturer			HELI						
1.02	Model			CQD14X2						
1.03	Configuration number			GA2R	GB2R	GC2R	GA2RLI	GB2RLI	GC2RLI	
1.04	Load capacity	Q	kg	1350						
1.05	Load center distance	C	mm	600						
1.06	Power model			Battery			Lithium Battery			
1.07	Driving model			Stand-on						
1.08	Wheel base	L2	mm	1557	1593	1655	1557	1593	1655	
1.09	Voltage		V	48						
	Tyre									
2.01	Tyre type			Polyurethane						
2.02	Wheel number, drive/load/caster(X=drive wheel)			1×/4/2						
2.03	Wheel size,load		mm	ϕ127×95						
2.04	Wheel size,drive		mm	Φ330×140						
2.05	Wheel size,caster		mm	ϕ178×76						
	Dimensions									
3.01	Lift height	H	mm	5330						
3.02	Free lift	H8	mm	1490						
3.03	Mast height,lowered	H1	mm	2526						
3.04	Fork size,htickness/width/length	s/e/l	mm	40×122×920						
3.05	Fork adjusting width	W4	mm	244~724						
3.06	Tilt		°	3°/4°						
3.07	Fork sideshifting		mm	±50						
3.08	Truck body length(fork excluded)	L	mm	1954	1990	2052	1954	1990	2052	
3.09	Truck body width	W	mm	1090						
3.10	Straddle leg, inside width	W3	mm	842						
3.11	Straddle leg, outside width	S	mm	1080						
3.12	Fork carriage width	H7	mm	2312						
3.13	Reach distance	H4	mm	180						
3.14	Height of overhead guard	H5	mm	50						
3.15	Battery bottom clearance	H9	mm	130						
3.16	Straddle clearance	H6	mm	250						
3.17	Straddle height	Wa	mm	1838	1874	1936	1838	1874	1936	
3.18	Step height	L1	mm	252						
3.19	Minimum turning radius	L4	mm	1529	1565	1627	1529	1565	1627	
3.20	Drive wheel center to truck body rear distance	Ast	mm	2935	2971	3033	2935	2971	3033	
3.21	Fork front to truck body rear distance	Ast	mm	2713	2749	2811	2713	2749	2811	
3.22	Aisle width with pallet 1200Lx1200w	W2	mm	1008						
3.23	Aisle width with pallet 1000Lx1000w	W1	mm	1300						
	Performance									
4.01	Power Unit Travelling speed,with/without load		km/h	10/11						
4.02	Forks Unit Travelling speed,with/without load		mm/s	330/510						
4.03	Lifting speed,with/without load		mm/s	500/500						
4.04	Lowering speed,with/without load		mm/s	110/150						
4.05	Maximum climb capability,with/without load		%	10/15						
	Weight									
5.01	Total weight(without battery)		kg	2750	2770	2790	2750	2770	2790	
5.02	Axle loading, no load (fornt/rear)		kg	1379/2221	1443/2325	1530/2394	1379/2221	1443/2325	1530/2394	
5.03	Axle loading, loaded (fornt/rear)		kg	3010/1940	3112/2006	3164/2110	3010/1940	3112/2006	3164/2110	
	Battery									
6.01	Battery voltage/capacity k5		V/Ah	48/550	48/660	48/770	48/404	48/542	48/542	
6.02	Minimum battery weight		kg	1066	1270	1406	1066	1270	1406	
6.03	Minimum battery weight		kg	839	998	1134	839	998	1134	
6.04	Battery department size		mm	1005×428×810	1005×465×810	1005×527×810	1005×428×810	1005×465×810	1005×527×810	
	Motor and controller									
7.01	Driving motor power		kw	7						
7.02	Lifting motor power		kw	15						
7.03	Steering motor power		kw	0.6						
7.04	Type of driving control			MOSFET/AC						
7.05	Type of lifting control			MOSFET/AC						
7.06	Type of steering control			MOSFET/AC						
7.07	Transmission box			HELI special						
7.08	Service brake			Electric						
7.09	Parking Brake			Automatic						
7.10	Hydraulic systerm working pressure		Mpa	21						

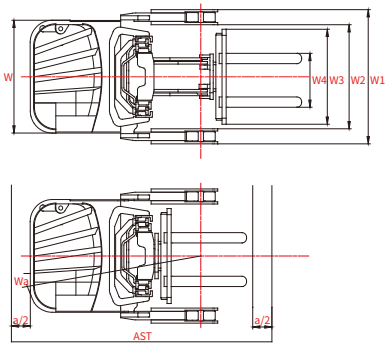
Note: Please consult the sales or technical personnel for the specific brand and capacity of the battery. Right-angle stacking widths in meters are all zero-gap channels, and an extra 150 mm or more is needed to provide easier operation.

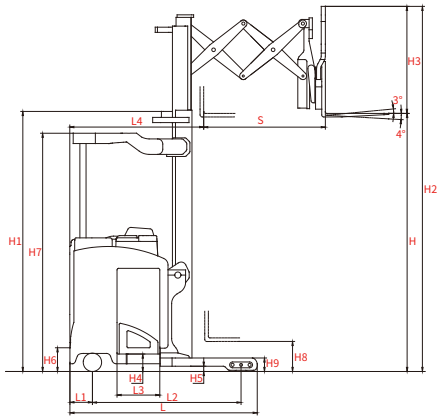
MANUFACTURER' S DATA AND DESIGN CHARACTERISTICS

	Characteristics										
1.01	Manufacturer			HELI							
1.02	Model			CQD15X2		CQD16X1		CQD18X1		CQD20X1	
1.03	Configuration number			GA2RHDLI	GB2RHDLI	GB2R	GB2RLI	GB2R	GB2RLI	GB2RHDLI	
1.04	Load capacity	Q	kg	1450		1600		1800		2041	
1.05	Load center distance	C	mm	600							
1.06	Power model			Lithium Battery		Battery	Lithium Battery	Battery	Lithium Battery	Lithium Battery	
1.07	Driving model			Stand-on							
1.08	Wheel base	L2	mm	1613	1675	1407		1457		1675	
1.09	Voltage		V	80		48		48		80	
	Tyre										
2.01	Tyre type			Polyurethane							
2.02	Wheel number, drive/load/caster(X=drive wheel			1×/4/2							
2.03	Wheel size,load		mm	Φ152×95		Φ127×95		Φ127×95		Φ152×95	
2.04	Wheel size,drive		mm	Φ330×140							
2.05	Wheel size,caster		mm	Φ178×76							
	Dimensions										
3.01	Lift height	H	mm	6860	8660	5330		5330		6860	
3.02	Free lift	H8	mm	1914	2663	1490		1490		1914	
3.03	Mast height,lowered	H1	mm	3036	3785	2526		2526		3036	
3.04	Fork size,htickness/width/length	s/e/l	mm	40×122×920							
3.05	Fork adjusting width	W4	mm	244~724		200~703		200~703		244~724	
3.06	Tilt		°	3°/4°							
3.07	Fork sideshifting		mm	±50							
3.08	Truck body length(fork excluded)	L	mm	2038	2100	1815		1865		2100	
3.09	Truck body width	W	mm	1090							
3.10	Straddle leg, inside width	W3	mm	842							
3.11	Straddle leg, outside width	S	mm	1080		600		600		600	
3.12	Fork carriage width	H7	mm	2312							
3.13	Reach distance	H4	mm	180							
3.14	Height of overhead guard	H5	mm	50							
3.15	Battery bottom clearance	H9	mm	155		130		130		155	
3.16	Straddle clearance	H6	mm	250							
3.17	Straddle height	Wa	mm	1890	1960	1695		1745		1962	
3.18	Step height	L1	mm	252							
3.19	Minimum turning radius	L4	mm	1516	1592	1396		1396		1521	
3.20	Drive wheel center to truck body rear distance	Ast	mm	2931	3013	2771		2812		2956	
3.21	Fork front to truck body rear distance	Ast	mm	2711	2792	2550		2591		2737	
3.22	Aisle width with pallet 1200Lx1200w	W2	mm	1008							
3.23	Aisle width with pallet 1000Lx1000w	W1	mm	1300							
	Performance										
4.01	Power Unit Travelling speed,with/without load		km/h	11/11		10/11		10/11		11/11	
4.02	Forks Unit Travelling speed,with/without load		mm/s	330/520		330/510		330/510		330/520	
4.03	Lifting speed,with/without load		mm/s	450/400		500/500		500/500		450/400	
4.04	Lowering speed,with/without load		mm/s	-		110/150		110/150		-	
4.05	Maximum climb capability,with/without load		%	10/13		10/15		10/15		10/13	
	Weight										
5.01	Total weight(without battery)		kg	3332	3632	2450		2560		3340	
5.02	Axle loading, no load (fornt/rear)		kg	2570/1560	2852/1780	1960/1290		2160/1340		2690/1690	
5.03	Axle loading, loaded (fornt/rear)		kg	2376/3206	1849/2641	1600/3250		1800/3450		2420/3980	
	Battery										
6.01	Battery voltage/capacity k5		V/Ah	80/202		48/404		48/404		80/202	
6.02	Minimum battery weight		kg	1000	1250	953		1066		1250	
6.03	Minimum battery weight		kg	800	1000	726		839		1000	
6.04	Battery department size		mm	995×365×788	995×455×788	1005×388×810		1005×428×810		995×455×788	
	Motor and controller										
7.01	Driving motor power		kw	7							
7.02	Lifting motor power		kw	18		15		15		18	
7.03	Steering motor power		kw	0.6							
7.04	Type of driving control			MOSFET/AC							
7.05	Type of lifting control			MOSFET/AC							
7.06	Type of steering control			MOSFET/AC							
7.07	Transmission box			HELI special							
7.08	Service brake			Electric							
7.09	Parking Brake			Automatic							
7.10	Hydraulic systerm working pressure		Mpa	21							

Note: For specific battery brands and capacities, please consult sales or technical personnel. The right-angle stacking widths in the table are all for zero-clearance aisles; an additional 150 mm or more is required to allow for easier operation. Parameters comply with JBT-3244.

AST:
Right angle stacking aisle width
a: Clearance a=150mm





WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Fork height (mm)	Mast height (mm)	Load Capacity(kg)				Service Weight,Unl(kg)				
			CQD14		CQD16	CQD18	CQD14			CQD16	CQD18
			CQD14X2-GA2R CQD14X2-GA2RLI	CQD14X2-GB2R/GC2R CQD14X2-GB2RLI/GC2RLI	CQD16X1-GB2R CQD16X1-GB2RLI	CQD18X1-GB2R CQD18X1-GB2RLI	CQD14X2-GA2R. CQD14X2-GA2RLI	CQD14X2-GB2R. CQD14X2-GB2RLI	CQD14X2-GC2R. CQD14X2-GC2RLI	CQD16X1-GB2R CQD16X1-GB2RLI	CQD18X1-GB2R CQD18X1-GB2RLI
ZSM502	5025	2418	1350		1600	1800	3580	3748	3904	3345	3480
ZSM533	5330	2531	1350		1600	1750	3600	3768	3924	3365	3500
ZSM610	6095	2786	1200		1600	1750	3670	3838	3994	3435	3570
ZSM685	6855	3041	1000		1100	1300	3720	3888	4044	3485	3620
ZSM762	7620	3326	800	900	950	1100	3790	3958	4144	3555	3690

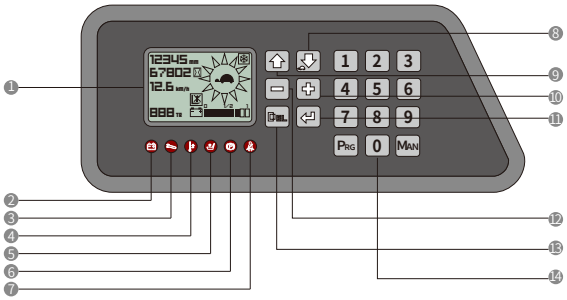
WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Fork height (mm)	Free lift (mm)	Mast height (mm)	Load Capacity(kg)			Service Weight,Unl(kg)			
				CQD15		CQD20	CQD15		CQD20	
				CQD15X2-GA2RHDLI	CQD15X2-GB2RHDLI	CQD20X1-GB2RHDLI	CQD15X2-GA2RHDLI	CQD15X2-GB2RHDLI	CQD20X1-GB2RHDLI	
ZSM502	5025	1316	2270	1450	1450	2041	3758	4008	3983	
ZSM533	5330	1416	2420	1450	1450	2041	3820	4070	4025	
ZSM560	5600	1506	2621	1450	1450	2041	3876	4126	4081	
ZSM610	6100	1671	2786	1450	1450	2041	3977	4227	4182	
ZSM650	6500	1815	2930	1450	1450	2041	4066	4316	4281	
ZSM686	6860	1914	3041	1450	1450	2041	4135	4385	4340	
ZSM762	7620	2208	3335	1150	1450	1814	4300	4550	4511	
ZSM815	8150	2438	3565	950	1450	1750	4375	4630	4591	
ZSM866	8660	2663	3790	800	1450	1650	4460	4710	4676	
ZSM930	9300	2938	4065	-	1200	1550	-	4795	4763	
ZSM1016	10160	3243	4370	-	930	1450	-	4965	4937	
ZSM1070	10700	3398	4525	-	800	1350	-	5020	4995	
ZSM1145	11450	4139	5265	-	-	910	-	-	5369	

HELI

Reliable special designed instrument

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.

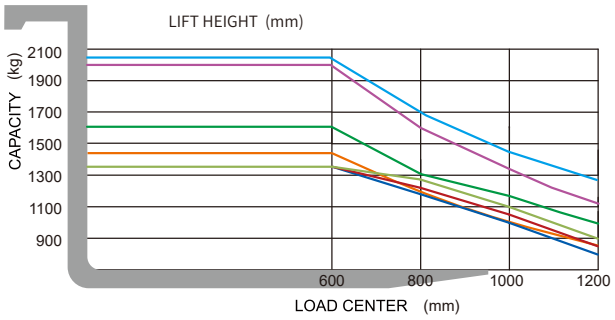


1. Information display
2. Low voltage indicator
3. Fault indicator
4. Oil temperature indicator(spare use)
5. Foot pedal safety switch indicator
6. Electronic Brake Indicator
7. Seat belt switch indicator (spare use)
8. Performance selecting button (down)
9. Performance selecting button (up)
10. Value setting button (increase)
11. Enter
12. Value setting button (decrease)
13. Exit
14. Highly Recognized Functional Areas



1. Fault indicator
2. Brake indicator
3. Seat switch indicator
4. Date and time
5. Working mode
6. Speed display
7. Truck speed
8. Steering angle indicator
9. Hour meter
10. Front and rear gears indicator
11. Performance selecting button (down)
12. Performance selecting button (up)
13. Value setting button (increase)
14. Value setting button (decrease)
15. Enter
16. Exit
17. Battery level

LOAD CURVE



- CQD20X1-GB2RHDLI
- CQD18X1-GB2R
  CQD18X1-GB2RLI
- CQD16X1-GB2R
  CQD16X1-GB2RLI
- CQD15X2-GA2RHDLI
  CQD15X2-GB2RHDLI
- CQD14X2-GA2R/GA2RLI
- CQD14X2-GB2R/GB2RLI
- CQD14X2-GC2R/GC2RLI

Note: The vertical axis is the load capacity,and the horizontal axis is the load center which is calculated from the front face of the forks to the load center of gravity.Capacity curves shown are for a standard mast at zero degree tilt with standard forks.Changing mast tilt,using non-standard forks or loading large goods can affect load capacity.This chart can be used to estimate load capacity at various load centers for standard masts.Contact HELI for specific load ratings for your situation.

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