

3500-4000lbs (1.6-1.8t) 36/48V Reach Truck G2 Series AC Electric CQD16-18X1





CQD16-18X1 3500-4000lbs (1.6-1.8t)



Multi-function joystick handle and proportional controls produce are easy and intuitive to use



Operator compartment provides comfort and efficient operation

Operator comfort

- > Rear padding and armrest help reduce fatigue
- Multifunction control is ergonomically designed and easy to use
- All controls are within easy reach to help reduce body strain
- Compartment floor is angled and spring suspended to reduce leg and back strain

Safety

- Side stance improves operator's visibility both forward and backward
- Automatic park brake applies when operator leaves the compartment or shuts forklift off
- Programmable automatic deceleration in turns adds to safe operation
- > Warning lights and OPS system come standard

Improved operator's view

- Large, rounded overhead guard is stylish and combined with stragetically angled bars provides maximium visibility
- Newly designed, wide view mast with special chains enlarges the operator's view looking forward

Working efficiency

- Small turning radius makes steering flexible and easy
- With ZAPI control and AC powered motors, drive and lift systems can be programmed for maximum efficiency and performance
- > The large battery capacity for longer single shift work operation
- With standard battery roller and side removal, battery change is quick and easy





Great visibility for improved operation and safety

Energy efficiency

- With an optimized hydraulic system, truck is more energy efficient
- > All LED lights saves 80% of lighting energy
- Regenerative motor braking recycles more energy during braking cycles
- Programmable speed and acceleration settings can be set for maximum energy efficiency

Serviceability

- Side door gives easy access to drive motor and gearbox
- Chassis components are well laid-out and can be accessed with removable top and front covers







Easy access to drive components

Heli's New Reach Trucks

Designed for productivity



ZAPI smart display & multi-function joystick

Designed for safety



Standard lights, mesh finger guard & overhead guard with leg

Designed for serviceabilty



Easy to remove covers to access all electric and hydraulic components

CQD16-18X1 3500-4000lbs (1.6-1.8t)

	Characteristics									
1.01	Manufacturer					HEL				
1.02	Model		_		CQD16X		CQD1	8X1		
1.03	Configuration number				GB2R		GB2R			
1.04	Load capacity	Q	lb	kg	3500	1600	4000 1800			
1.05	Load center	C	in	mm	24	600	24	600		
1.06	Power mode		1111	111111	27		ctric	000		
1.07	Operator Type									
1.08	Wheel base	L2	in	mm	55	1407	and 57 1457			
1.09	Voltage	LZ	V	V	36/48	36/48	36/48	36/48		
1.07	Tire		V	V	30/40	30/40	30/48	30/40		
2.01	Tire type				Polyurethane	Polyurethane	Polyurethane	Polyurethane		
2.02	Wheel number,drive/load/caster (X=drive wheel)				1×/4/2	1×/4/2	1×/4/2	1×/4/2		
2.03	Wheel size, load (diameter x length)		in	mm	Φ5×3.7	Φ127×95	Φ5×3.7	Φ127×95		
2.04	Wheel size, drive (diameter x length)		in	mm	Φ13×5.5	Ф330×140	Ф3×5.5	Ф127×73 Ф330×140		
2.05	Wheel size, caster (diameter x length)		in	mm	Φ7.4×3	Φ178×76	Φ7.4×3	Φ330×140		
2.03	Dimensions		Im	mm	Ψ7.4×3	Ψ1/6×/6	Ψ7.4×3	Ψ176×76		
3.01	Lift height (with standard mast)	Н	i na	100.100	210	EE20	210	EE30		
3.02	Mast height, lowered	H1	in	mm	218 99	5530 2526	218 99	5530		
3.02	Free lift	H8	in	mm	59		59	2526		
	Fork size (thickness x width x length)	Пб	in	mm		1490 35×100×920		1490 35×100×92		
3.04		14/4	in	mm	1.4×3.9×36.2		1.4×3.9×36.2			
3.05	Fork adjusting width Tilt (forward/backward)	W4	in	mm	9.6~28.5	244~724	9.6~28.5	244~724		
3.06			deg	deg	3°/4°	3°/4°	3°/4°	3°/4°		
3.07	Fork sideshifting		in	mm	±2	±50	±2	±50		
3.08	Truck body length(fork excluded)	L	in	mm	71	1815	73	1865		
3.09	Truck body width	W	in	mm	43	1090	43	1090		
3.10	Straddle leg, inside width	W2	in	mm	33~51	845~1300	33~51	845~1300		
3.11	Straddle leg, outside width	W1	in	mm	47~59	1192~1492	47~59	1192~1492		
3.12	Fork carriage width	W3	in	mm	33	842	33	842		
3.13	Reach distance	S	in	mm	24	600	24	600		
3.14	Height of overhead guard	H7	in	mm	91	2320	91	2320		
3.15	Battery bottom clearance	H4	in	mm	7	180	7	180		
3.16	Straddle clearance	H5	in	mm	2	50	2	50		
3.17	Straddle height	Н9	in	mm	5	130	5	130		
3.18	Step height	Н6	in	mm	10	250	10	250		
3.19	Minimum turning radius	Wa	in	mm	67	1695	69	1745		
3.20	Rear overhang (drive wheel center to rear of frame)	L1	in	mm	10	252	10	252		
3.21	Front fork face to rear of frame distance	L4	in	mm	55	1396	55	1396		
3.22	Aisle width with pallet 48"Lx48"w (1200x1200)	Ast	in	mm	109	2771	111	2812		
3.23	Aisle width with pallet 40"Lx40"w (1000x1000)	Ast	in	mm	100	2550	102	2591		
	Performance									
4.01	Travel speed loaded/unloaded		mph	km/h	6.5/7.3	10.5/11.8	6.5/7.3	10.5/11.8		
4.02	Lift speed loaded/unloaded			mm/s	65/100	330/510	65/100	330/510		
4.03	Lowering speed loaded/unloaded			mm/s	98/98	500/500	98/98	500/500		
4.04	Reach speed loaded/unloaded		100	mm/s	22/30	110/150	22/30	110/150		
	Max.gadeability loaded/unloaded - 5 minute rating		%	%	10/15	10/15	10/15	10/15		
	Weight		///	/0	.0/13	10, 13	70/13	10, 13		
5.01	Total weight(with battery)		lb	kg	7165	3250	7716	3500		
5.02	Axle loading, no load (front/rear)		lb	kg	4321/2844	1960/1290	4762/2954	2160/1340		
5.03	Axle loading, he load (front/rear) Axle loading, loaded (front/rear)		lb	kg	3527/7165	1600/3250	3968/7606	1800/3450		
5.05	Battery		ID	kg	332777103	1000/3230	3700/7000	1000/3450		
6.01	Battery voltage/capacity k5		ماريما	۸۵	28	775	28	775		
	Battery voltage/capacity k5		kwh	Ah	18	500	18	500		
6.02			kwh	Ah						
6.03	Minimum battery weight		lb	kg	1764	800	2072	940		
6.04	Battery box dimension		in	mm	39×14×31	985×365×788	39×16×31	985×415×78		
7.04	Motor and controller		1.15		0.4		0.1			
7.01	Driving motor power		HP	kw	9.4	7	9.4	7		
7.02	Lifting motor power		HP	kw	20.1	15	20.1	15		
7.03	Steering motor power		HP	kw	8.0	0.6	0.8	0.6		
7.04	Type of driving control						ET/AC			
7.05	Type of lifting control					MOSF	ET/AC			
7.06	Type of steering control				MOSFET/AC					
7.07	Transmission box				HELI special					
							•			
7.08	Service brake					Ele	ectric			

NOTE: For detailed information about battery, please contact your authorized HELI dealer.

These are "Zero Clearance" aisles in the table and require an additional 150mm or more to be added to provide for easier maneuvering.



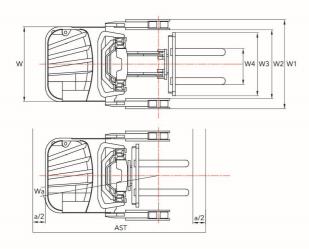


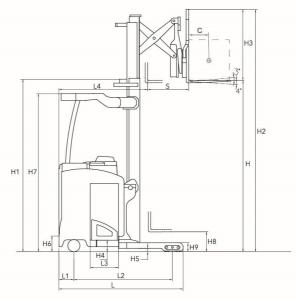


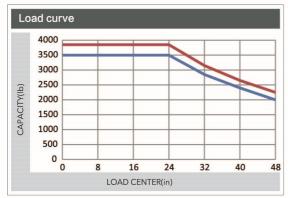
WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Fork Height h3 (in)(mm)			Free lifting height h3 (in)(mm)			Mast height h1 (in)(mm)				Load Capacity at 24'' Load Center (lb) (kg)				Service Weight (lb) (kg)					
	CQD	16X1	CQD	18X1	CQD	16X1	CQD	18X1	CQD	16X1	CQD18X1		CQD	D16X1 CQD18X1		CQD16X1		CQD18X1		
ZSM502	198	5025	198	5025	55	1390	55	1390	95	2413	95	2413	3527	1600	3968	1800	7374	3345	7672	3480
ZSM533	210	5330	210	5330	59	1490	59	1490	99	2526	99	2526	3527	1600	3858	1750	7419	3365	7716	3500
ZSM610	240	6095	240	6095	69	1745	69	1745	109	2781	109	2781	3527	1600	3858	1750	7573	3435	7871	3570
ZSM685	270	6855	270	6855	79	2000	79	2000	120	3036	120	3036	2425	1100	2866	1300	7683	3485	7981	3620
ZSM762	300	7620	300	7620	90	2285	90	2285	131	3321	131	3321	2094	950	2425	1100	7837	3555	8135	3690

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







CQD16X1 CQD18X1

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 cpecific load ratings for your situation.



THE PERFORMANCE OF BRTTERY INCRERSES

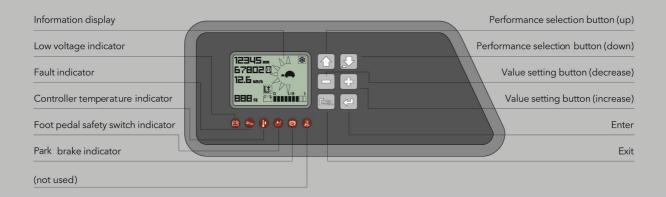
Renewable energy technologies



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%.



ZAPI intelligent display provides vital information such as speed and battery discharge status and is used to customize performance parameters



ZAPI intelligent display for GB2R model

Standard configuration

DC/DC converter

36V electric system All AC motors with ZAPI controls 218" (5330mm) 3-stage full free lift mast Integral pantograph with tilt and sideshift Standard forks Load backrest Polyurethane tires Electromagnetic proportional valve Battery rollers Overhead guard LED combined display Front work light LED warning light Automatic steering slow down Electromagnetic, regenreative service brake Automatic park brake Low noise gear pump

Optional

48V electric system
Additional mast heights - 198-300" (5025-7620mm)
Lifting height pre-selector
Monitoring system
Additional batteries including Hoppecker and FAAM
Battery charger
Custom paint
Additional operator protection guard
Battery loading and unloading cart



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AUTHORIZED DEALER	