



1.01 1.02 1.03 1.04 1.05 1.06	Manufacturer Model												
1.03 1.04 1.05	Model				HELI								
1.04 1.05					CQD16X1		CQD18X1						
1.05	Configuration number				GB2R		GB2R						
	Load Capacity	Q	lb	kg	3527	1600	4000	1800					
1 06	Load center	С	in	mm	24	600	24	600					
1.00	Power model				Electric								
1.07	Driving model					Sta	and						
1.08	Wheel Base	L2	in	mm	55	1407	57	1457					
1.09	Votage		V	V	36/48	36/48	36/48	36/48					
	Tyre												
2.01	Tyre type				PU	PU	PU	PU					
2.02	wheel nuber, drive/load/caster(X=drive wheel)				1×/4/2	1×/4/2	1×/4/2	1×/4/2					
2.03	Wheel size, load		in	mm	Φ5×3.7	Ф127×95	Ф5×3.7	Ф127×95					
2.04	Wheel size, drive		in	mm	Φ13×5.5	Ф330×140	Ф13×5.5	Ф330×140					
2.05	Wheel size, caster		in	mm	Φ7.4×3	Ф178×76	Φ7.4×3	Ф178×76					
2.05	Dimensions			111111	47.4.0	¥170.70	47.41.5	417070					
3.01	Lift height	Н	in	mm	218	5530	218	5530					
3.02	Mast height,lowered	H1			99	2526	99	2526					
3.02	Free lift	H8	in	mm	59	1490	59	1490					
			in	mm									
3.04	Fork size, htickness/width/length	s/e/l W4	in	mm	1.4×3.9×36.2	35×100×920	1.4×3.9×36.2	35×100×920					
3.05	Fork adjusting width	VV4	in	mm	9.6~28.5	244~724	9.6~28.5	244~724					
3.06	Tilt(forward/backward)		deg	deg	3°/4°	3°/4°	3°/4°	3°/4°					
3.07	Fork sideshifting	L.	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	H9	in	mm	5	130	5	130					
3.18	Step height	H6	in	mm	10	250	10	250					
3.19	Minimum turning radius	Wa	in	mm	67	1695	69	1745					
3.20	Drive wheel center to truck body rear distance	L1	in		10	252	10	252					
3.21	Fork front to truck body rear distance	L4	in	mm	55	1396	55	1396					
3.22	Aisle width with pallet 1200Lx1200w	Ast	_	mm	109	2771	111	2812					
3.23	Aisle width with pallet 1200Lx1200w Aisle width with pallet 1000Lx1000w	0.71.000.00	in	mm									
3.23	Performance	Ast	in	mm	100	2550	102	2591					
4.04				1 4	4573	405/440	4.5/7.0	405440					
	Travel speed loaded/unloaded			km/h		10.5/11.8	0.071176.103709713302	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			mm/s	22/30	110/150	22/30	110/150					
4.05	Max.gadeability loaded/unloaded - 5 minute rating		%	%	10/15	10/15	10/15	10/15					
	Weight												
5.01	Total weight(with battery)		lb	kg	7165	3250	7716	3500					
5.02	Axle loading, no load (fornt/rear)		lb	kg	4321/2844	1960/1290	4762/2954	2160/1340					
5.03	Axle loading, loaded (fomt/rear)		lb	kg	3527/7165	1600/3250	3968/7606	1800/3450					
	Battery			and the same									
6.01	Battery voltage/capacity k5		kwh	Ah	28	775	28	775					
6.02	Battery voltage/capacity k5		kwh	Ah	18	500	18	500					
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					
	Motor and controller												
0.0	Driving motor power		HP	kw	9.4	7	9.4	7					
			HP	kw	20.1	15	20.1	15					
7.01	Lifting motor power		-	7,000	0.8	0.6							
7.01 7.02	Lifting motor power		ПБ					112					
7.01 7.02 7.03	Steering motor power		HP	kw	0.0		0.8	0.6					
7.01 7.02 7.03 7.04	Steering motor power Type of driving control		HP	kw	0.0	MOSF	ET/AC	0.6					
7.01 7.02 7.03 7.04 7.05	Steering motor power Type of driving control Type of lifting control		HP	kw	0.0	MOSF MOSF	ET/AC ET/AC	0.6					
7.01 7.02 7.03 7.04 7.05 7.06	Steering motor power Type of driving control Type of lifting control Type of steering control		HP	kw	0.0	MOSF MOSF MOSF	ET/AC ET/AC ET/AC	0.6					
7.01 7.02 7.03 7.04 7.05 7.06 7.07	Steering motor power Type of driving control Type of lifting control Type of steering control Transmission box		HP	kw	0.0	MOSF MOSF MOSF HELL	ET/AC ET/AC ET/AC special	0.6					
7.01 7.02 7.03 7.04 7.05 7.06 7.07 7.08 7.09	Steering motor power Type of driving control Type of lifting control Type of steering control		PSI	Mpa	0.0	MOSF MOSF MOSF HELL	ET/AC ET/AC ET/AC	0.6					

1.6-1.8 t G SERIES

AC ELECTRIC NARROW AISLE REACH TRUCK

>> FEATURES OF THE COMPLETED 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

Safety

- > HELI's Intelligent control system automatic decelerates in sharp turns for safer opertion
- > Warning light and drive OPS system come standard to ensure complete truck safety
- > Parking brake is automatically applied on a slope or flat surface via a magnetic brake
- on the drive axle
- > Five independent braking systems provide maximum, safe braking
- > Regenerative braking provides extra power back to the electrical system releasing
- > when the control handles is released
- > Emergency brake is activated by releasing foot pedal
- > Parking brake can also be activated by pressing button on the panel
- Parking brake automatically activated when operator leave truck
- > Emergency stop switch disengages power and applies brake automatically



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

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

Maintainability

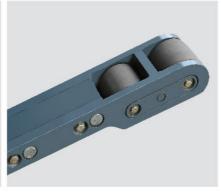
- > Door,top cover and front all can be removed easily to allow great access to
- > all chassis components for quick and easy maintenance
- > With bolt type load wheel box installation, outrigger&load wheel
- > maintenance are convenient and less costly















Wide view mast and pantograph

- > Comes standard with shift, tilt and reach funtions
- Newly designed wide-view mast and 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

Comfortable operator's compartment

- Optimal 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

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

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

Standard Configuration

AC travelling motor

AC lifting motor

AC steering motor

ZAPI travelling motor controller

ZAPI lifting motor controller

ZAPI steering motor controller

Electromagnetic brake

DC/DC conventer

Low noise gear pupm

Electromagnetic proportional valve

5330mm(218 in.) three stage full free lift mast

integral pantograph

Standard fork

Overhead guard

Load backrest

Polyurethane tire

LED combined display

Front work light

LED warning light

Automatic steering slow down device

Automatic Packing brake

Operator's tool kit

Optional Configuration

Three-stage full free lift mast(other lifting height)

Fork extension

Lifting height pre-selector

Monitoring system

Other battery

Germany HOPPECKER battery

Italy FAAM battery

Battery charger

Custom paint

Operator protection guard

HELI LIFTING THE FUTURE www.helichina.net

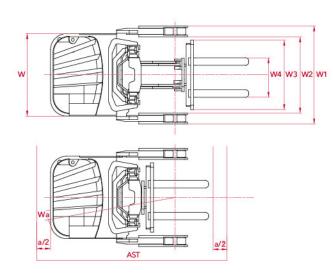


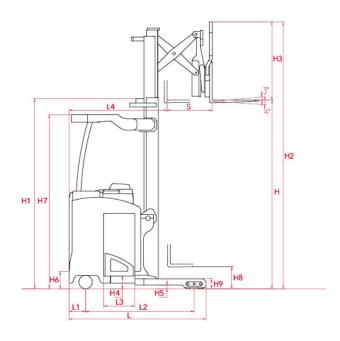


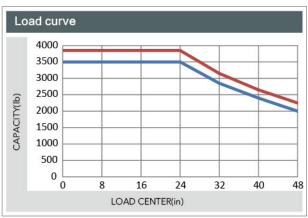
WIDE VIEW FULL FREE 3-STAGE MAST

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)					
	CQD16X1		CQD18X1		CQD16X1		CQD18X1		CQD16X1		CQD18X1		CQD16X1		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









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

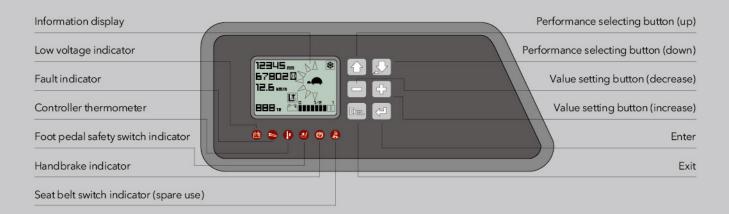
Renewable energy technologies



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%.



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.



ZAPI high level meter (for GB2R truck model)







HELI CANADA

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