G2 SERIES 2.0 t

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
- Max. travelling speed without load 20% increased
- Max. travelling speed with load 27% increased

Newly designed hydraulic system

- Newly designed hydraulic system with high working efficiency
- High power lifting motor
- MOSFET lifting speed governing electric controller
- New type low noisy gear pump
- Max. lifting speed without load 15% increased
- Max. lifting speed with load 25% increased

Optimized intelligent design

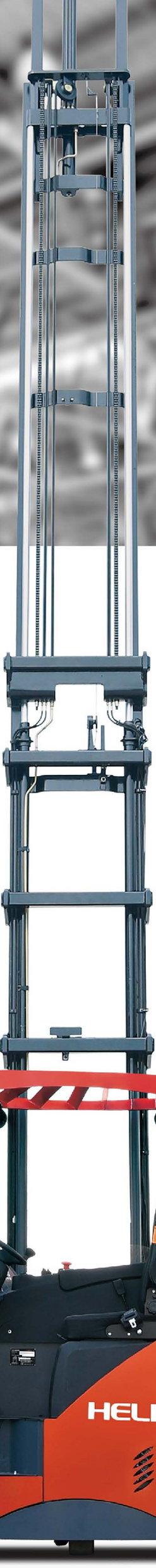
- ZAPI travelling motor controller
- ZAPI lifting motor controller
- ZAPI steering motor controller
- CAN bus technology
- Emergency power off of both main circuit and control circuit
- Parking brake on slope
- Operation sequence protection
- Travelling speed control
- Electric controller self protection

Advanced EPS electric powered steering

- EPS electric powered steering offering easy，flexible，high efficient and mute operation
- Steering motor controller
- Automatic centering function
- Real-time shifting between 180°steering mode and 360° steering mode
- Automatic limit on speed and accelerated speed when steering

Easy operated thumb switch

- To control hydraulic functions
- Clear operating units
- Proportional solenoid offering a stable and comfort lowering action













Overhead guard

- Fence on top of the overhead guard offering driver wide view
- Beveled view angle design with front ring beam meeting humanized requirements

Comfort cab

- Comfort cab offering driver good working environment and easy operation
- Easy reach to important operation
- Adjustable seat (seat position /backrest angle)

Wide view mast

- Good view when loaded
- Integral sideshifter
- Mast vertical, fork tilt
- High residual load capacity at high lift height
- Lift height range:4600-12500mm
- Buffering during lifting and lowering
- Buffering on lifting and lowering limit
- Buffering when cylinder moving forward

Displayer

- High quality meter displaying important operating data
- Display of traveling direction and drive wheel angle
- Display of 180°/360° steering mode
- Display of battery quantity and fault code
- Travelling mode selection
- Lifting lock indication
- Hour meter

HELI smart fleet management system (optional)

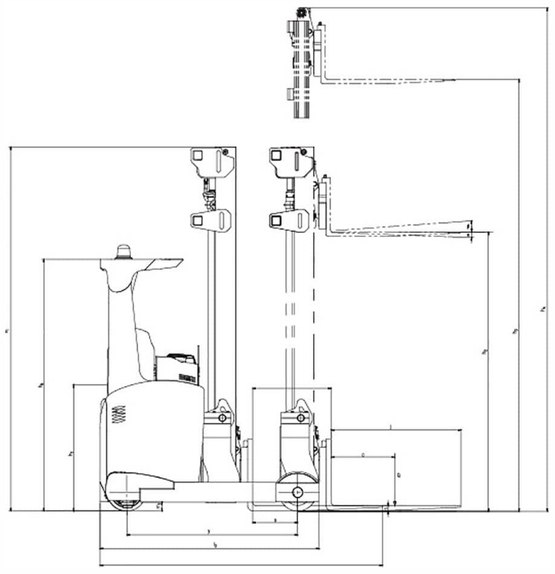
- Vehicle positioning
- Remote diagnosis
- Remote monitoring
- Maintenance reminder
- Battery management
- Statistical form
- Vehicle management
- Ldentification recognition (optional)
- Weight management (optional)
- Collision management (optional)

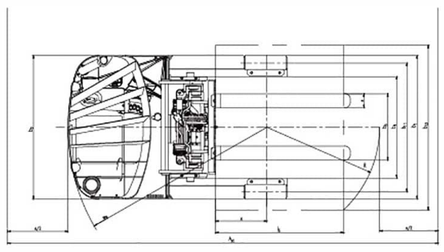


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WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max.lifting height (mm)	Load capacity (lode center 600mm)(kg)	Height (mast lowered)(mm)	Free lift (with backrest) (mm)	Service weight (kg)	Fork tilt angle α/β (°)
		CQD20-GB2SHD	CQD20-GB2SHD	CQD20-GB2SHD	CQD20-GB2SHD	
ZSM460	4600	2000	2334	1311	4455	2°/4°
ZSM480	4800	2000	2401	1378	4475	2°/4°
ZSM540	5400	2000	2601	1578	4530	2°/4°
ZSM570	5700	2000	2701	1378	4580	2°/4°
ZSM630	6300	2000	2901	1878	4640	2°/4°
ZSM675	6750	2000	3051	2028	4675	2°/4°
ZSM700	7000	2000	3134	2111	4690	2°/4°
ZSM715	7150	2000	3184	2161	4710	2°/4°
ZSM750	7500	2000	3301	2278	4745	2°/4°
ZSM800	8000	2000	3467	2444	4795	2°/4°
ZSM850	8500	2000	3634	2611	4845	2°/4°
ZSM900	9000	1900	3801	2778	4895	2°/4°
ZSM950	9500	1800	3967	2944	4945	2°/4°
ZSM1000	10000	1700	4134	3111	4995	2°/4°
ZSM1050	10500	1550	4301	3278	5045	2°/4°
ZSM1080	10800	1450	4401	3378	5075	2°/4°
ZSM1100	11000	1350	4467	3444	5100	2°/4°
ZSM1150	11500	1250	4634	3611	5150	2°/4°
ZSM1200	12000	1100	4801	3778	5200	2°/4°
ZSM1250	12500	900	4967	3944	5250	2°/4°

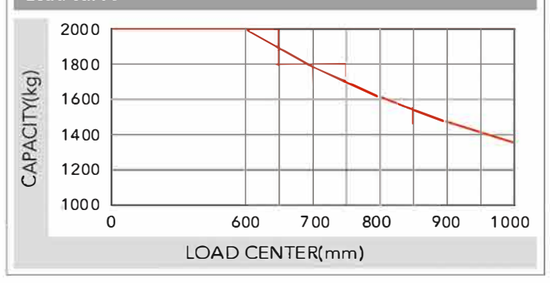




Ast:Right angle stacking aisle width
a:Clearance a=200mm

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Load curve



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.

RENEWABLE ENERGY TECHNOLOGIES

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

15%

Manufacturer's Data and Design Characteristics

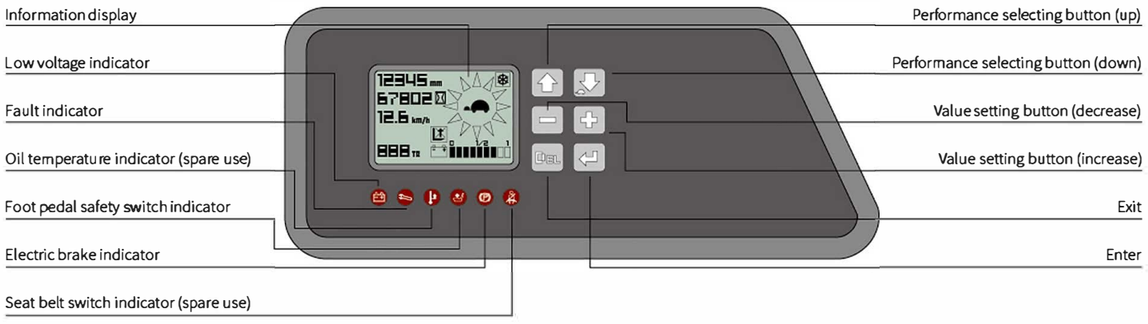
	Characteristics			
1.01	Manufacturer			HELI
1.02	Model			CQD20
1.03	Configuration number			GB2SHD
1.04	Rated capacity	Q	kg	2000
1.05	Load center distance	C	mm	600
1.06	Power mode			Battery
1.07	Driving mode			Seated
1.08	Front overhang	X	mm	431
1.09	Wheelbase	y	mm	1670
	Weight			
2.01	Total weight (with/without battery)		kg	4455/3220
2.02	Axle load ,unladen,front/rear (fork advanced)		kg	1915/2540
2.03	Axle load ,unladen,front/rear (fork retracted)		kg	2670/1785
2.04	Axle load ,laden,front/rear (fork advanced)		kg	1350/5105
2.05	Axle load ,laden,front/rear (fork retracted)		kg	2845/3610
	Tyres			
3.01	Tyretype			Polyurethane
3.02	Tyre size,front			Φ343x135
3.03	Tyre size,rear			Φ330x135
3.04	Wheels,number front/rear (x=driven wheels)			1x/2
3.05	Tread, rear	b_{11}	mm	1178
	Dimensions			
4.01	Fork tilt angle (forward/backward)	α/β	°	2/4°
4.02	Height (mast lowered)	h_1	mm	2334
4.03	Free lifting height	h_2	mm	1311
4.04	Lifting height (standard)	h_3	mm	4600
4.05	Max. height,extended (with backrest)	h_4	mm	5623
4.06	Height of overhead guard	h_6	mm	2215
4.07	Seat height relating to SIP (to ground)	h_7	mm	1180
4.08	Overall length (with fork)	l_1	mm	2624
4.09	Overall length (without fork)	l_2	mm	2096
4.10	Overall width	b_1	mm	1270/1348
4.11	Fork size:thickness x width x length	s/e/l	mm	40x122x1150
4.12	Fork carriage,according to ISO2328			2A
4.13	Distance between fork-arms, Max./Min.	b_5	mm	244~724
4.14	Fork sideshifting		mm	±75
4.15	Distance between support arms	b_4	mm	900
4.16	Reach distance	l_4	mm	670
4.17	Ground clearance (laden,between mast)	m_1	mm	75
4.18	Right angle stacking aisle width for pallet 1000 x1200mm crosswavs	A_{st}	mm	2926
4.19	Right angle stacking aisle width for pallet 800 x1200mm lengthwavs	A_{st}	mm	2966
4.20	Min. outside turning radius	W_a	mm	1901
	Performance Data			
5.01	Travel speed (laden/unladen)		km/h	12/14
5.02	Lift speed (laden/unladen)		m/s	0.35/0.55
5.03	Lowering speed (laden/unladen)		m/s	0.5/0.5
5.04	Reach speed (laden/unladen)		m/s	0.1/0.1
5.05	Max.gradeability (laden/unladen)		%	10/15
	Battery			
6.01	Battery voltage/Capacity		V/Ah	48/775
6.02	Battery weight (Min./Max.)		kg	1235
6.03	Battery box dimension		mm	1220×427×784
	Motor and controller			
7.01	Driving motor powering		kw	8
7.02	Lifting motor powering		kw	12.5
7.03	Steering motor powering		kw	0.4
7.04	Driving motor controlling mode			MOSFET/AC
7.05	Lifting motor controlling mode			MOSFET/AC
7.06	Steering motor controlling mode			MOSFET/AC
	Addition data			
8.01	Transmission box			HELI special transmission box
8.02	Service brake/Parking brake			Electromagnetic

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

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.



Standard configuration	Optional
AC travelling motor	fork with other length
AC lifting motor	Fork extension
AC steering motor	Reversing buzzer
ZAPI travelling motor controller	Other battery
ZAPI lifting motor controller	Germany hoppecker battery
ZAPI steering motor controller	Italy FAAM battery
Electromagnetic brake	Battery charger
Lifting height pre-selector	Customer made color
Monitoring system	Battery side pulling
DC/DC converter	HELI smart fleet management system
Low noisy gear pump	
Control valve (four throw)	
4600mm three stage full free lift mast	
Integral sideshifter	
Standard fork	
Backrest	
Polyurethane tyre	
LED meter	
Front working light	
Rearview mirror with wide view angle	
Safety belt	
Blue warning light	

HELI
LIFTING THE FUTURE

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Contact us direct or get in touch with your local dealer

0800 435 469
sales@heliforklifts.co.nz

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G2 SERIES
AC ELECTRIC REACH TRUCK-SIT-DOWN TYPE (HEAVY DUTY TYPE)

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