

NINGBO RUYI

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since 1985

CQD20-D

COUNTERBALANCED REACH TRUCK



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Advantages:

HIGH EFFICIENCY AND FLEXIBILITY

- One-key start + password login , more convenient to start the truck .
- Electric power steering system(EPS).
- 180/360 degree steering mode.
- AC motor provides high driving speed (laden/ unladen): 10.5/11 km per hour.
- 4-stage driving speed selection.
- Intelligently optimized turning speed control system: The system analyzes the tire angle, driving and steering direction, then automatically adjusts the speed to achieve maximum safety performance.
- Fork side camera system provides better view, avoids the problem of being blocked by the pallets while stacking.
- Luxurious cushion seat equipped with OPS function.
- Standard integral side shifter.

SAFETY AND STABILITY

- The mast adopts an offset design, optimizes the operator views.
- Height limit function, high speed limit function, turning speed limit function.
- The mast moving speed will be automatically reduce while reaching the end position.
- FULL AC control system with CAN communication technology.
- The service brake is operated by hydraulic brake and regenerative brake at the same time , with short braking distance.
- Automatic electromagnetic brake after parking.
- Seat with power-off switch while operator leave the seat.
- Standard: warning lights, headlights, rear view mirrors.
- Option: ACS function (when the mast is lifted and moved forward, it can reduce the truck vibration)

SERVICE ABILITY

- One-piece upper cover with open design, convenient to maintain the controller, lifting pumps, hydraulic devices, drive motors and brake systems, etc.
- Sideway battery can be moved out with mast together, convenient to maintain/ replace the battery.
- All electric parts are integrated modular design, easy for installation/ maintenance.

The Console Has Been Fully Optimized And Upgraded

- The thumb switch imported from Germany, tilts forward fit to ergonomic design, convenient to operate; the thumb can conveniently control the front/rear button and the horn .
- The arm rest is designed with poly foam cushion, more comfortable for long-term operation.
- Switch button is integrated (to control LED headlights, fans, red light, etc.), with extended functions for easy operation.
- The steering wheel is adjustable front and rear, equipped with steering damping.
- The console is designed with multiple storage.
- Large-screen color instrument, real-time display of vehicle speed, working mode, working time, battery power, wheel angle and faults and other information (Option for mechanical control).
- With password login interface. (For magnetic control)
- All function can be operated with touch screen control, such as forward/backward switch, headlight control, horn control, 180/360 degree by one-key switch of steering mode, etc.
- It can communicate with camera system and display the image directly on the instrument.
- It can communicate with the vehicle weighing system and display the weight of the goods on the instrument in real time(Option) .
- It can communicate with the vehicle height positioning system, display the height of the forks on the instrument in real time, and carry out the operation of fixed height/fixed floor.option(Option) .

OPTION

- Camera system
- Quick lifting function
- Weighing system
- Blue light
- Touch screen instrument
- High capacity battery (800AH , 930AH)
- Lithium battery
- Documents holder



• Adjustable steering wheel



• Adjustable cushion seat

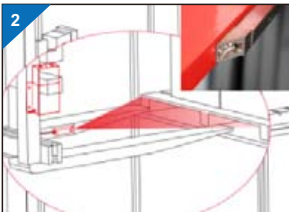


• The battery can be removed with the mast, and with side-way structure to facilitate the maintenance or replacement of the battery.



Fully upgraded console

Large-screen instrument and finger-tip sticks, adopt Germany ELOBAU, with ergonomics design, can display battery power, wheel angle, faults and other information.



Fork camera

The camera system is equipped on the fork, which provides a better view during fork moving, avoid the problems that view may be blocked by the pallet feet while stacking. The camera is made of stainless steel, IP protection grade is IP69, the shockproof grade is 10G. Not afraid of bump.



One-piece cover

The cover can be opened to ensure the maintenance easy and fast.



Wide view mast

The mast system and roof guard adopt new structure, optimize operators' view.



Height positioning system

Adopt absolute wire encoder. Start counting from 0.



ASC forklift active stabilization system

When the mast moves forward and backward, the service brake will be locked automatically, which can ensure truck does not move forward and backward, improve the stability of the truck.

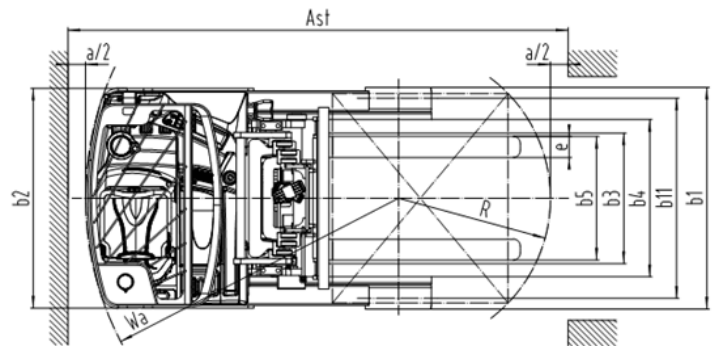
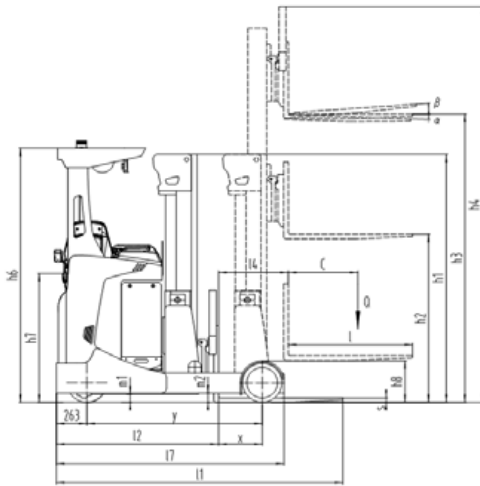


Technical parameters

	1.2	Manufacturer's type designation	CQD20-D (5M-9.5M)	CQD20-D (10.2M-14M)
Features	1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	2000
	1.6	Load centre distance	c (mm)	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	377
	1.9	Wheelbase	y (mm)	1510
Weight	2.1	Service weight	kg	3605
	2.3	Axle loading, unladen front/rear	kg	2245/1360
	2.4	Axle loading, fork advanced, laden front/rear	kg	727/4878
	2.5	Axle loading, fork retracted, laden front/rear	kg	2030/3575
Tyres	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Polyurethane	Polyurethane
	3.2	Tyre size, front	mm	Φ343×140
	3.3	Tyre size, rear	mm	Φ340×114
	3.4	Additional wheels (dimensions)	mm	-
	3.5	Wheels, number front/rear (× = driven wheels)	1x/2	1x/2
	3.6	Tread, front	b10 (mm)	-
	3.7	Tread, rear	b11 (mm)	1146
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b (°)	2/4
	4.2	Height, mast lowered	h1 (mm)	2340
	4.3	Free lift	h2 (mm)	1400
	4.4	Lift	h3 (mm)	5000
	4.5	Height, mast extended	h4 (mm)	5940
	4.7	Height of overhead guard (cabin)	h6 (mm)	2210
	4.19	Overall length	l1 (mm)	2466
	4.20	Length to face of forks	l2 (mm)	1396
	4.21	Overall width	b1/b2 (mm)	1270/1260
	4.22	Fork dimensions DIN ISO 2331	s / e / l (mm)	40/120/1070
	4.23	Fork carriage ISO 2328, class/type A, B	2B	2B
	4.24	Fork-carriage width	b3 (mm)	928
	4.25	Fork spread	b5 (mm)	708
	4.26	Distance between wheel arms/loading surfaces	b4 (mm)	900
	4.28	Reach distance	l4 (mm)	600
	4.31	Ground clearance, laden, below mast	m1 (mm)	70
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2849
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	2899
	4.35	Turning radius	Wa (mm)	1783
	4.37	Length across wheel arms	l7 (mm)	1960
Performance Data	5.1	Travel speed, laden/unladen	km/h	10.5/11
	5.2	Lift speed, laden/unladen	m/s	0.29/0.45
	5.3	Lowering speed, laden/unladen	m/s	0.5/0.56
	5.4	Reaching speed, laden/unladen	m/s	0.12/0.12
	5.8	Max. gradeability, laden/unladen	%	10/10
	5.10	Service brake	Electromagnetic	Electromagnetic
Motors	6.1	Drive motor rating S2 60 min	kW	6.5(AC)
	6.2	Lift motor rating at S3 15%	kW	8.2(AC) ⁽¹⁾
	6.3	Battery according to DIN 43531/35/36 A, B, C, no	-	-
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah) or kWh	48/500 ^{(2) (3)}
	6.5	Battery weight	kg	870
Additional Data	10.7	Sound pressure level at the driver's seat	dB (A)	65

Option: 1) Motor with quick lift
2) Acid Battery 48V/600AH, 48V/800AH, 48V/930AH
3) Lithium battery 48V/300AH, 48V/350AH, 48V/400AH, 48V/450AH

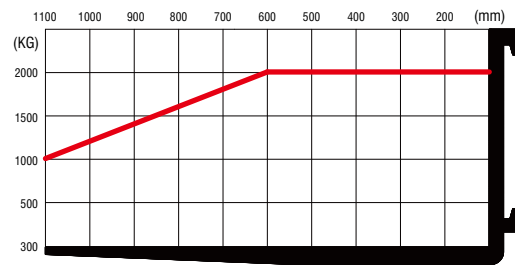
*** Option:**  Lithium battery 400AH (Charger 48V/100AH)
 Lithium battery 48V/450AH (Charger 48V/100AH)



LOAD CAPACITY CHART



LOAD CENTER CHART



Mast Table

Max Lifting Height	Height, mast lowered	Free lifting (with overhead guard)	Height, mast extended
h3(mm)	h1(mm)	h2(mm)	h4(mm)
3000	2240	0	3940
3500	2490	0	4440
4000	2740	0	4940
5000	2340	1400	5940
6200	2740	1800	7140
7400	3190	2250	8340
8000	3390	2450	8940
8600	3590	2650	9540
9500	3890	2950	10440
10200	4190	3250	11140
11100	4490	3550	12040
12000	4790	3850	12940
12500	4956	4016	13440
13000	5226	4286	13940
14000	5556	4616	14940



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