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MAKE EVERYTHING EASIER





00109Q1226RIM/3302
00109E20323RIM/3302
00109S19127RIM/3302



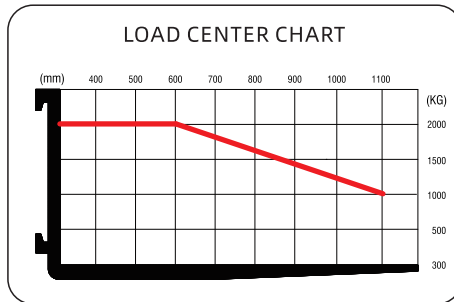
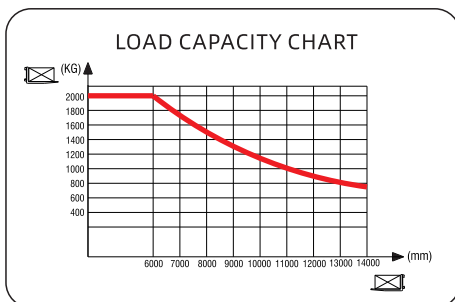
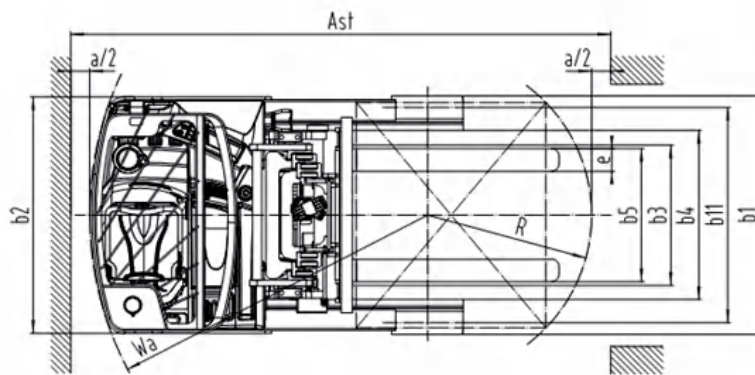
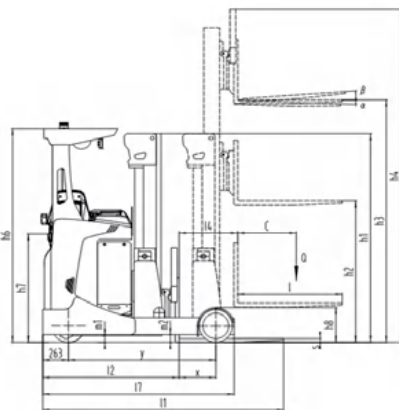
体系认证
CNAS C001-Q1 E. S



CQD20-D

MAX. LIFT HEIGHT:
14000mm

AC **EPS**
(Option)



Model	CQD20-D		CQD20-D	
		(lift height≤9.5meters)		(9.5meters,<lift height≤12.5meters)
Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas		Electric		Electric
Operator type: hand, pedestrian, standing, seated, order-picker		Seated		Seated
Rated capacity/rated load	Q (kg)	2000		2000
Load centre distance	c (mm)	600		600
Load distance, centre of drive axle to fork	x (mm)	377		377
Wheelbase	y (mm)	1510		1510
Service weight	kg	3605		4750
Axle loading, unladen front/rear	kg	2245/1360		2958/1792
Axle loading, fork advanced, laden front/rear	kg	727/4878		875/5875
Axle loading, fork retracted, laden front/rear	kg	2030/3575		2444/4306
Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane		Polyurethane
Tyre size, front		Φ343×140		Φ343×140
Tyre size, rear		Φ340×114		Φ340×114
Wheels, number front/rear (× = driven wheels)		1x/2		1x/2
Tread, rear	b ₁₁ (mm)	1146		1196
Tilt of mast/fork carriage forward/backward	a/b (°)	2/4		2/4
Height, mast lowered	h ₁ (mm)	2240/2490/2740/2340/2740/3190/3390/3590/3890		4190/4490/4790/4956
Free lift	h ₂ (mm)	0/0/0/1400/1800/2250/2450/2650/2950		3250/3550/3850/4016
	h ₂ (*) (mm)	0/0/0/1736/2136/2536/2736/2936/3236		3600/3900/4200/4366
Lift	h ₃ (mm)	3000/3500/4000/5000/6200/7400/8000/8600/9500		10200/11100/12000/12500
Height, mast extended	h ₄ (mm)	3940/4440/4940/5940/7140/8340/8940/9540/10440		11140/12040/12940/13440
Height of overhead guard (cabin)	h ₆ (mm)	2210		2210
Overall length	l ₁ (mm)	2466		2466
Length to face of forks	l ₂ (mm)	1396		1396
Overall width	b ₁ /b ₂ (mm)	1270/1260		1345/1260
Fork dimensions DIN ISO 2331	s/e/l (mm)	40/120/1070		40/120/1070
Fork carriage ISO 2328, class/type A, B		2B		2B
Fork-carriage width	b ₃ (mm)	928		928
Fork spread	b ₅ (mm)	708		708
Distance between wheel arms/loading surfaces	b ₄ (mm)	900		900
Reach distance	l ₄ (mm)	600		600
Ground clearance, laden, below mast	m ₁ (mm)	80		80
Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2849		2849
Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	2899		2899
Turning radius	Wa (mm)	1783		1783
Length across wheel arms	l ₇ (mm)	1960		1960
Travel speed, laden/unladen	km/h	10.5/11		10.5/11
Lift speed, laden/unladen	m/s	0.29/0.45		0.29/0.45
Lowering speed, laden/unladen	m/s	0.5/0.5		0.5/0.5
Reaching speed, laden/unladen	m/s	0.12/0.12		0.12/0.12
Max. gradeability, laden/unladen	%	10/10		10/10
Service brake		Electromagnetic		Electromagnetic
Drive motor rating S2 60 min	kW	6.5(AC)		6.5(AC)
Lift motor rating at S3 15%	kW	8.2(AC)		8.2(AC)
Battery voltage/nominal capacity K5	(V)/(Ah) or kWh	48/500		48/500
Battery weight	kg	870		870
Sound pressure level at the driver' s seat	dB (A)	65		65

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

Load Capacity chart

Lift height (mm)	LC=600mm	LC=700mm	LC=800mm	LC=900mm	LC=1000mm
	Residual Capacity (kg)				
≤6000	2000	1780	1600	1460	1340
6200	1800	1600	1440	1310	1210
7400	1600	1420	1280	1170	1070
8000	1500	1330	1200	1090	1000
8600	1400	1240	1120	1020	940
9500	1200	1070	960	870	800
10200	1150	1020	920	840	770
10750	1050	930	840	760	700
11100	1000	890	800	730	670
12000	900	800	720	650	600
12500	850	750	680	620	570
13000	800	710	640	580	530
14000	750	660	600	540	500

With side shift	CQD20-D								
Mast stages	2-stage mast 3-stage mast 3-stage mast		2-stage mast 3-stage mast 3-stage mast		2-stage mast 3-stage mast 3-stage mast		2-stage mast 3-stage mast 3-stage mast		
Mast height	h ₃	h3≤4m 5m≤h3≤9.5m 10.2m≤h3≤14m		h3≤4m 5m≤h3≤9.5m 10.2m≤h3≤14m		h3≤4m 5m≤h3≤9.5m 10.2m≤h3≤14m		h3≤4m 5m≤h3≤9.5m 10.2m≤h3≤14m	
Battery Capacity		≤500Ah		600Ah		800Ah		930Ah	
Wheel base	y	1510		1510		1590		1590	
Overall length(minimum)	l ₁	2466		2542		2622		2737	
Length to face of forks	l ₂	1396		1472		1552		1667	
Reach distance	l ₄	600		524		524		409	
Aisle width for pallets 1000x1200 crossways	Ast	2849		2925		3005		3120	
Aisle width for pallets 800x1200 lenthways	Ast	2899		2975		3055		3170	
Aisle width for pallets 1000x1200 lenthways	Ast	2950		3026		3106		3221	
Aisle width for pallets 800x1200 crossways	Ast	2720		2796		2876		2991	
Turning radius(minimum)	Wa	1783		1783		1863		1863	
Length across wheel arms(exclusive fork)	l ₇	1960		1960		2040		2040	
Tyre size, loading wheels(diameter x width)	/	Φ340x114		Φ340x114		Φ340x114		Φ340x114	
Overall width	b ₁ /b ₂	1270/1260 1345/1260		1270/1260 1345/1260		1270/1260 1345/1260		1270/1260 1345/1260	



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.

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)

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 longterm 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 xed height/xed oor.option(Option) .

SERVICE ABILITY

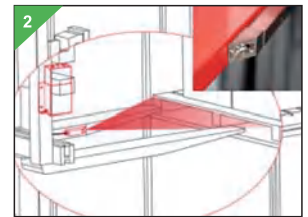
- One-piece upper cover with open design, convenient to maintain the controller, lifting pumps, hydraulic devices, drive motors and brake systems, etc.
- Sideway battery can be moved out with mast together, convenient to maintain/ replace the battery.
- All electric parts are integrated modular design,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

OPTION

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



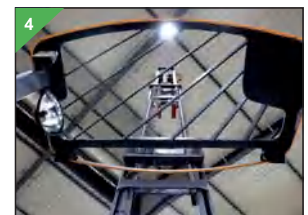
FULLY UPGRADED CONSOLE
Large-screen instrument and finger-tip sticks, adopt Germany ELOBAU, with ergonomics design, can display battery power, wheel angle, faults and other information.



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.





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