

Electric Reach Truck

Model: CQD10M/15M



Conforms to EN 1726-1:1999, EN1175-1:1998, EN 1726-1/A1:1999
Machinery Directive 2006/42/EC

Conforms to EN 12895:2000
Electromagnetic compatibility Directive 2004/108/EC



Model: CQD10L/15L

Advantages:

The CQD series Counterbalanced Reach lift truck developed by Ningbo Ruyi, with innovative design and application-oriented functionality, low noise, no pollution and a small turning radius. With its high lifting height and good stability, it is widely used for high-shelves operation in narrow aisle warehouses, supermarkets, etc.

ITS FEATURES INCLUDE:

- Truck with small width from 1020-1100mm, turning radius from 1700-1740mm and narrow cabin to ensure trucks can be used in drive-in racks.
- Available in either DC or AC power options.
- For daily maintenance of the battery, you DON'T NEED to hang up the battery box. Simply using a battery handle controller, you can automatically remove and replace the battery box.
- Equipped with two separate floating devices, which enhances stability in terms of structure, reducing weight, and prolonging the working life of the driving wheels.
- Full hydraulic steering system, with integrative design of driving and steering, provides low-effort and flexible power steering.
- Integrated driving and turning systems.
- A fully hydraulic steering system ensures flexible turning, and requires less maintenance.
- Optional high-level video system places a camera in the top skid, allowing the operator enhanced visibility.
- Height selection and height positioning system is a high-level configuration, which with manual and automatic control, for automatic positioning with a keypad, enabling the operator to choose the appropriate lift height (optional).

Option

- AC power system
- Joystick hydraulic controller
- LCD display and camera
- Height selection and height position system



Oil tube inside of the mast with clean wire communications



With battery handle controller can automatically remove out battery box.



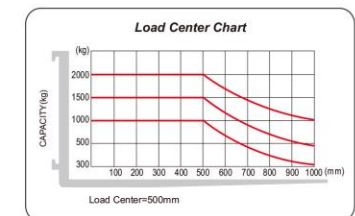
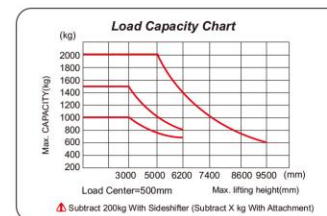
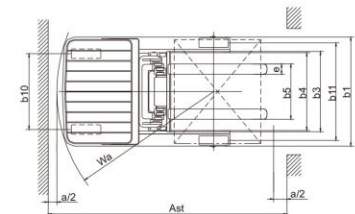
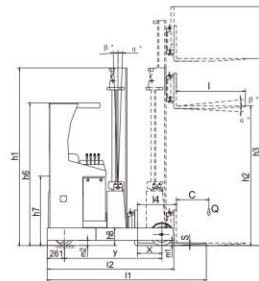
Integrated structure of drive system and steering system



Optional of battery changing trolley

MODEL		CQD10L			CQD15L			CQD10M			CQD15M		
Power		electric			electric			electric			electric		
Operation type		standing			standing			seated			seated		
Capacity/rated load	Q(kg)	1000			1500			1000			1500		
Lift height	h_1 (mm)	3000	5000	6200	3000	5000	6200	3000	5000	6200	3000	5000	6200
Load centre distance	c(mm)	500			500			500			500		
Load distance, centre of drive axle to fork	x(mm)	360	320	320	390	320	320	390	390	390	390	390	390
Wheelbase	Y(mm)	1380	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480
Service weight	kg	2140			2340			2200			2400		
Axle loading/unladen front/rear	kg	~			~			~			~		
Tyres type		polyurethane			polyurethane			polyurethane			polyurethane		
Drive wheel	mm	Φ 280x100			Φ 280x100			Φ 280x100			Φ 280x100		
Fork wheel	mm	Φ 250x80			Φ 250x80			Φ 285x80			Φ 285x80		
Wheels, number front rear(x=driven wheels)		3,2			3,2			3,2			3,2		
Tread, front	b_{f1} (mm)	660			660			740			740		
Tread, rear	b_{r1} (mm)	896			896			996			996		
Tilt of mast/fork carriage forward/backward	α, β (Grad)	3.5(mast)	3.5(forks)	3.5(forks)	3.5(mast)	3.5(forks)	3.5(forks)	2.3(mast)	~	~	2.3(mast)	~	~
Height, mast lowered	h_2 (mm)	2086	2240	2640	2086	2240	2640	2086	2240	2640	2086	2240	2640
Free lift	h_3 (mm)	~			~			~			~		
Height, mast extended	h_4 (mm)	3800	5800	7000	3800	5800	7000	3800	5800	7000	3800	5800	7000
Height of overhead guard(cabin)	h_5 (mm)	2200			2200			2114			2114		
Seat height/stand height	h_6 (mm)	295			295			920			920		
Height of crura	h_7 (mm)	270			270			270			270		
Overall length	L_1 (mm)	2360			2360			2390			2390		
Length(barring fork)	L_2 (mm)	1700			1800			1850			1850		
Overall width	b_1 (mm)	1020			1020			1100			1100		
Fork dimensions	s/e1(mm)	36/100/1070			40/100/1070			36/100/1070			40/100/1070		
Fork carriage DIN 15173, class/type A,B		A			A			A			A		
Fork-carriage width	b_2 (mm)	660			660			928			928		
Distance between fork-arms	b_3 (mm)	660			660			680			680		
Distance between support arms/loading surfaces	b_4 (mm)	688			688			800			800		
Reach distance	L_3 (mm)	600			600			600			600		
Ground clearance, laden, below mast	m_1 (mm)	90			90			90			90		
Ground clearance, centre of wheelbase	m_2 (mm)	80			80			80			80		
Aisle width for pallets 1000x1200 crossways	A_1 (mm)	2800			2800			2800			2800		
Aisle width for pallets 800x1200 lengthways	A_2 (mm)	2850			2850			2850			2850		
Turning radius	W_1 (mm)	1700			1700			1740			1740		
Travel speed, laden/unladen	Kmh	7/7.2			7/7.2			7/7.2			7/7.2		
Lift speed, laden/unladen	m/s	0.19/0.2			0.19/0.2			0.19/0.2			0.19/0.2		
Lowering speed, laden/unladen	m/s	0.5/0.4			0.5/0.4			0.5/0.4			0.5/0.4		
Reaching speed, laden/unladen	m/s	0.1/0.1			0.1/0.1			0.1/0.1			0.1/0.1		
Gradeability, laden/unladen	%	10, 12			10, 12			10, 12			10, 12		
Acceleration time, laden/unladen	s	3/4			3/5			3/4			3/5		
Service brake		mechanical			mechanical			mechanical			mechanical		
Battery voltage, nominal capacity K5	V/Ah	48/400			48/400			48/400			48/400		
Battery weight	Kg	550			550			550			550		
Battery dimensions l/w/h	mm	983x404x630			983x404x630			1092x336x650			1092x336x650		
Type of drive control		DC/AC			DC/AC			DC/AC			DC/AC		
Operating pressure for attachments	bar	100	120	120	140	150	150	100	120	120	140	150	150
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70			70			70			70		

DIMENSIONS



Electric Reach Truck

Model: CQD20H

Max. lift height:
9500mm



Advantages:

STABILITY

- The large and strong chassis ensures sufficient stability of the forklift.
- The max lifting height can reach 9.5 metres.
- Use "H" type mast steel is imported from Germany enhance the use time and stability.
- Large and comfortable compartment with adjustable seat reflects a concept of ergonomic design.
- Use double controllers to realize stepless speed regulation of both lifting and travelling.

SAFETY AND HIGH EFFICIENCY

- Have safety travelling speed limited device in the mast. Travelling speed will automatic lowering when forks height is up 5M.
- Full hydraulic steering system makes turning easy and flexible.
- Adopts hydraulic brake for two front wheel and electric brake for electric brake for driving motor, offer simple operation for travelling and braking.
- Integrated design of driving and steering system without chain transmission, resolve the problems of chain fall-off caused by chain transmission.

EASY MAINTENANCE

- Battery changing offers two type methods :
 - 1) Side way battery changing by a trolley.
 - 2) Automatic push-out and pull-in function by a simple battery handle controller.
- Bolt fixed back cover is easy to open for daily maintenance.
- Joystick hydraulic controller.
- LCD display and camera (LCD for cold storage are available).
- Height selection and height position system.
- EX explosion proof type.



Conforms to EN 1726-1:1999, EN1175-1:1999, EN 1726-1/A1:2003
Machinery Directive 2006/42/EC

Conforms to EN 12895:2000
Electromagnetic compatibility Directive 2004/108/EC



Optional of cabin



Optional of LCD display and camera for high level operation



Double controllers with CANbus communication to oil tube and wire

MODEL		CQD20				CQD20H		
Power		electric				electric		
Operation type		sealed				sealed		
Capacity/rated load	Q(kg)	2000				2000		
Lift height	h_1 (mm)	3000	5000	6200	7400	8000	8600	9500
Load centre distance	c (mm)	500				500		
Load distance centre of drive axle to fork	x (mm)	380				320		
Wheelbase	Y (mm)	1500				1500		
Service weight	kg	3300	3700	3800	3900	4100	4150	4240
Axle loading,unladen front/rear	kg	2190/1110	2400/1300	2440/1360	2480/1420	2500/1600	2540/1610	2580/1660
Axle loading,fork advanced,laden front/rear	kg	745/4555	845/4855	893/4907	942/4958	673/5427	714/5436	786/5454
Axle loading,fork retracted,laden front/rear	kg	2033/3267	2244/3456	2284/3516	2324/3576	2266/3834	2305/3845	2346/3894
Types type		polyurethane				polyurethane		
Drive wheel	mm	Φ406x152				Φ406x152		
Fork wheel	mm	Φ340x104				Φ340x134		
Wheels,number front rear(x=driven wheels)		2.1				2.1		
Tread,front	b_{f1} (mm)	~				~		
Tread,rear	b_{f2} (mm)	1130				1350		
Tilt of mast/fork carriage forward/backward	α, β (Grad)	2.2(mast)				3.5(forks)		
Height,mast lowered	h_2 (mm)	2086	2240	2740	3190	3390	3590	3890
Free tilt	h_3 (mm)	~	1700	2100	2500	2700	2900	3200
Height,mast extended	h_4 (mm)	3800	5800	7000	8200	8800	9400	10300
Height of overhead guard(cabin)	h_5 (mm)	2200				2200		
Seat height/stand height	h_6 (mm)	1068				1068		
Height of crura	h_7 (mm)	270				270		
Overall length	L_1 (mm)	2440				2510		
Length(barring fork)	L_2 (mm)	1950				1950		
Overall width	b_1 (mm)	1260				1510		
Fork dimensions	s_1 (mm)	40/120/1070				40/120/1070		
Fork carriage DIN 15173,class/type A,B		A				A		
Fork-carriage width	b_2 (mm)	928				928		
Distance between fork-arms	b_3 (mm)	680				850		
Distance between support arms/loading surfaces	b_4 (mm)	900				1090		
Reach distance	L_3 (mm)	600				600		
Ground clearance,laden,below mast	m_1 (mm)	90				90		
Ground clearance,centre of wheelbase	m_2 (mm)	80				80		
Aisle width for pallets 1000x1200 crossways	A_1 (mm)	2880				2880		
Aisle width for pallets 800x1200 lengthways	A_2 (mm)	2930				2930		
Turning radius	W_1 (mm)	1820				1820		
Travel speed,laden/unladen	Km/h	8/8.3				8/8.3		
Lift speed,laden/unladen	m/s	0.19/0.2				0.19/0.2		
Lowering speed,laden/unladen	m/s	0.5/0.4				0.5/0.4		
Reaching speed,laden/unladen	m/s	0.1/0.1				0.1/0.1		
Gradeability,laden/unladen	%	10,12				10,12		
Acceleration time,laden/unladen	s	4.8,4.3				4.8,4.3		
Service brake		hydraulic				hydraulic		
Battery voltage,nominal capacity K5	V/Ah	48/500				48/500		
Battery weight	Kg	860				860		
Battery dimensions l/w/h	mm	1220x344x727				1220x344x727		
Type of drive control		DC/AC				DC/AC		
Operating pressure for attachments	bar	140	160	160	160	170		
Sound level at the driver's ear acc.to DIN 12053	dB(A)	70				70		

DIMENSIONS

