

# CQD16/20LB

## Li-ion Reach Truck 1600/2000kg



- 48V/405Ah Li-ion battery and external charging plug for great convenience and adaptability
- Enhanced mast with better visibility and safety
- Hydraulic system with new components for better loads handling
- Higher efficiency with a maximum reach distance of 610mm and lifting/lowering speeds of 0.55m/s and 0.5m/s.
- Multi-functional configurations like proportional lifting, electric steering with damping and full-color display for easy operation
- Turnable seat compartment for easy maintenance
- Spacious operation space for fatigue-free work



Manufacturer			EP	EP
Model designation			CQD16LB CE	CQD20LB
Drive unit			Electric	Electric
Load center distance	c	mm	600	600
Service weight		kg	3905	3940
Lift height	h3	mm	9455	9500
Height, mast extended	h4	mm	10520	10560
Length to face of forks	l2	mm	1310	1373
Overall width	b1/b2	mm	1260/1270	1260/1270
Fork dimensions	s/e/l	mm	40/100/1150	40/120/1070
Reach distance	l4	mm	550	610
Turning radius	Wa	mm	1640	1770
Travel speed, laden/unladen		km/ h	10/11	9/9.5
Lifting speed, laden/unladen		m/s	0.45/0.55	0.45/0.55
Lowering speed, laden/unladen		m/s	0.5/0.45	0.5/0.45
Max. gradeability, laden/unladen		%	10/15	10/15
Battery voltage/nominal capacity		V/Ah	48/405	48/405

## FEATURE



### ■ Lithium technology for great effectiveness

CQD16/20LB adopts 48V Li-ion battery as standard and it features zero battery maintenance and opportunity charging during breaks. This makes CQD16/20LB a flexible and cost-effective tool to store and retrieve pallets in multi working shifts. Plus, the charging port is external for easy charging and protected by a cover from water and dust ingress for charging safety.



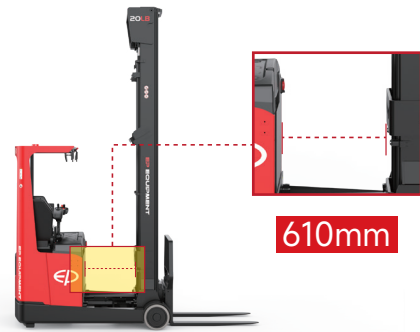
### ■ Complete configurations for easy operation

CQD16/20LB is of tremendous help to the operator with full-color display, electric steering with damping, joystick system as well as proportional hydraulic system, which the operator can take advantage of to handle loads more easily and precisely.



### ■ Easy maintenance

The seat can be easily turned sideways, providing a quick access to internal components for daily maintenance and repair.



### ■ Improved performance for productivity boost

The CQD LB series offers a greater reach distance for effortless stacking and retrieving, 550mm of the CQD16LB and 610mm of the CQD20LB. The lifting and lowering speeds are also improved to reduce your cycle times and elevate your working efficiency.



### ■ Enhanced mast with better visibility and safety

CQD16/20LB's mast enables an unimpeded view of raised loads since the cylinders are moved to the side, and the enhanced mast is also vibration-free. This makes it ideal for safe operation at heights up to 9.5m, with nominal capacity performance up to 6.9m for the CQD16LB and 6.5m for the CQD20LB.



### ■ Spacious operation space

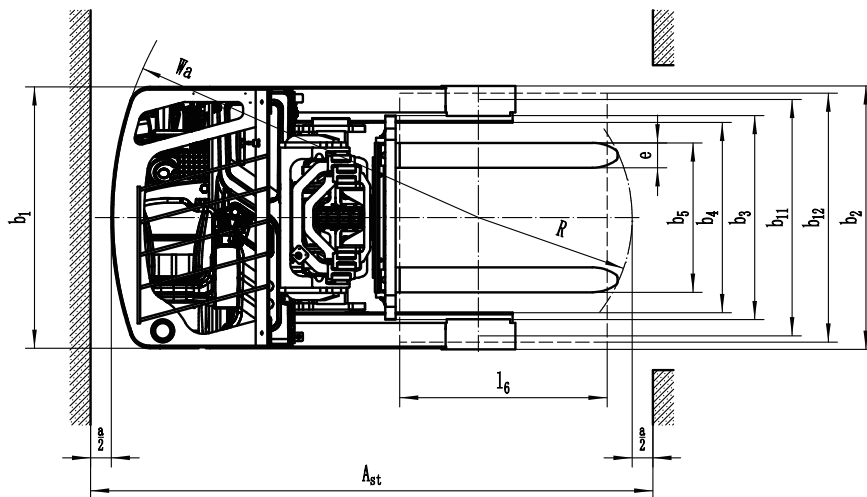
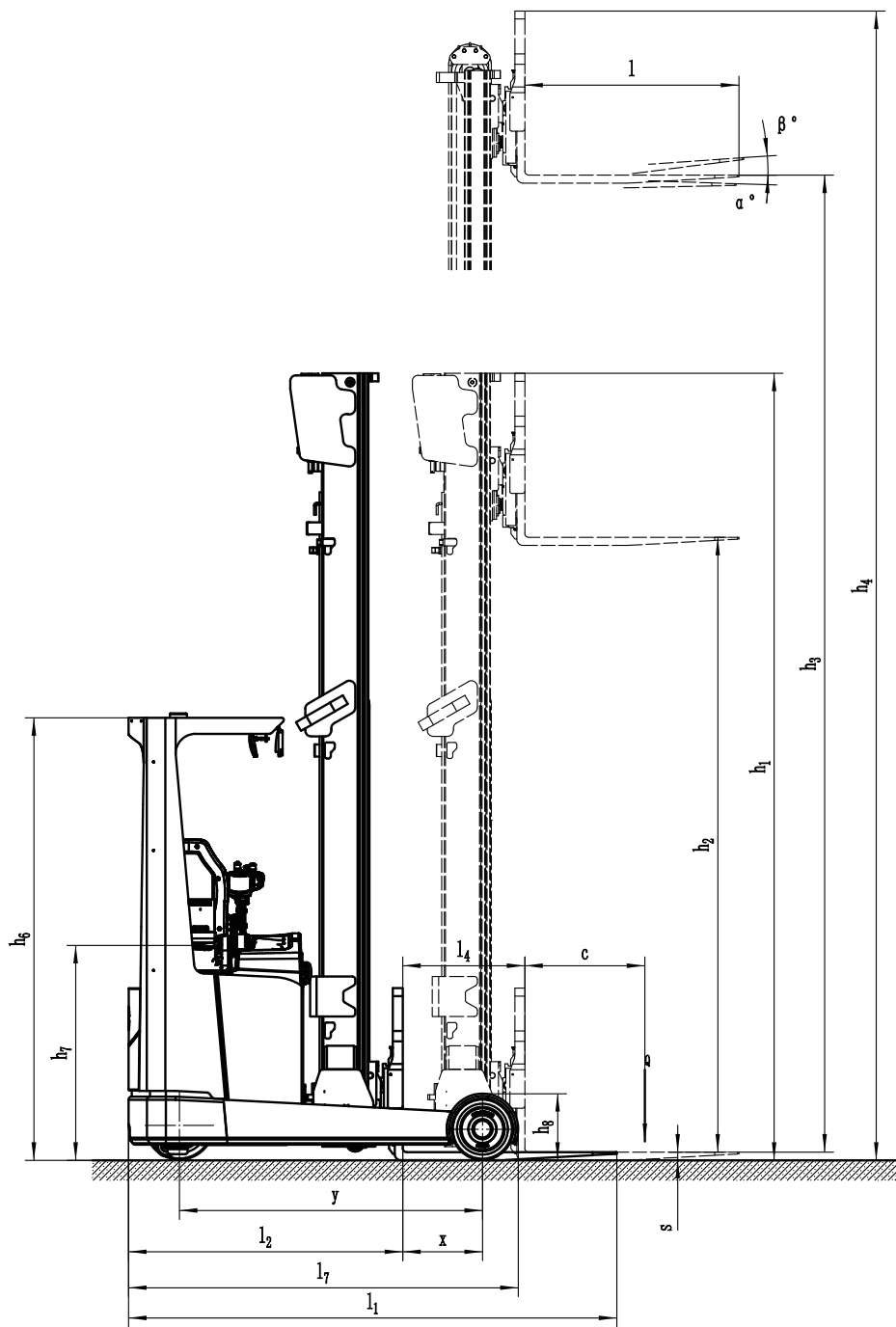
CQD16/20LB offers spacious legroom and a suspension seat to fulfill the ergonomic needs and ensure effective operation.

# Li-ion Reach Truck 1600/2000kg

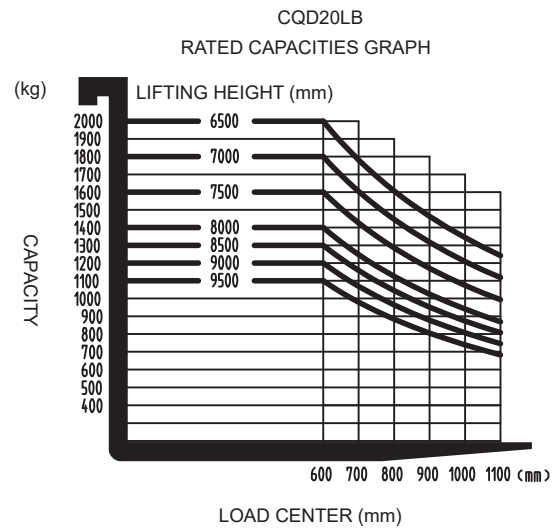
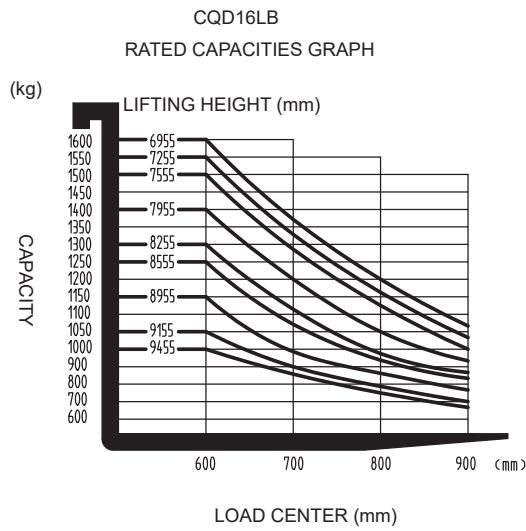
## CQD16/20LB

Distinguishing mark	1.1	Manufacturer			EP	EP
	1.2	Model designation			CQD16LB CE	CQD20LB
	1.3	Drive unit			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	rated capacity	Q	kg	1600	2000
	1.6	Load center distance	c	mm	600	600
	1.8	Load distance, centre of drive axle to fork	x	mm	331	399
	1.9	Wheelbase	y	mm	1385	1515
	Service weight	2.1	Service weight		kg	3905
2.3.1		Axle loading, unladen front/rear		kg	2474/1431	2465/1490
2.4.1		Axle loading, fork advanced, laden front/rear		kg	846/4659	635/5340
2.5.1		Axle loading, fork retracted, laden front/rear		kg	2236/3269	2165/3800
Tyres/chassis	3.1	Tyre type			Polyurethane	Polyurethane
	3.2.1	Tyre size, front		mm	Φ343×140	Φ343×140
	3.3.1	Tyre size, rear		mm	Φ310×118	Φ310×118
	3.4	Additional wheels		mm	Φ102×51	Φ102×51
	3.5.1	Wheels, number front/rear (x=drive wheels)		mm	1x/2	1x/2
	3.6.1	Tread, front	b10	mm	-	-
	3.7.1	Tread, rear	b11	mm	1148	1148
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	2/4	2/4
	4.2	Height, mast lowered	h1	mm	3910	3935
	4.3	Free lift	h2	mm	2850	2870
	4.4	Lift height	h3	mm	9455	9500
	4.5	Height, mast extended	h4	mm	10520	10560
	4.7	Height of overhead/ guard cabin	h6	mm	2213	2213
	4.8	Seat height/standing height	h7	mm	1076	1076
	4.10	Height of wheel arms	h8	mm	333	333
	4.19	Overall length	l1	mm	2460	2443
	4.20	Length to face of forks	l2	mm	1310	1373
	4.21	Overall width	b1/b2	mm	1260/1270	1260/1270
	4.22	Fork dimensions	s/e/l	mm	40/100/1150	40/120/1070
	4.23	A,B Fork carriage class/type A, B			2A	2A
	4.24	Fork carriage width	b3	mm	990	990
	4.25	Distance between fork-arms	b5	mm	200/770	240/770
	4.26	Distance between wheel arms/loading surfaces	b4	mm	915	915
	4.28	Reach distance	l4	mm	550	610
	4.31	Ground clearance, laden, below mast	m1	mm	70	70
	4.32	Ground clearance, center of wheelbase	m2	mm	75	75
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2738	2835
4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	2796	2885	
4.35	turning radius	Wa	mm	1640	1770	
4.37	Length across wheel arms	l7	mm	1817	1948	
Performance data	5.1	Travel speed, laden/unladen		km/ h	10/11	9/9.5
	5.2	Lifting speed, laden/unladen		m/s	0.45/0.55	0.45/0.55
	5.3	Lowering speed, laden/unladen		m/s	0.5/0.45	0.5/0.45
	5.4	Reaching speed, laden /unladen		m/s	0.15/0.15	0.15/0.15
	5.8	Max. gradeability, laden/unladen		%	10/15	10/15
	5.10	Service brake			Electromagnetic	Electromagnetic
5.11	Parking brake			Electromagnetic	Electromagnetic	
Electric-engine	6.1	Drive motor rating S2 60 min		kW	7	7
	6.2	Lift motor rating at S3 15%		kW	20	20
	6.4	Battery voltage/nominal capacity		V/Ah	48/405	48/405
	6.5	Battery weight		kg	490	490
Addition data	8.1	Type of drive unit			AC	AC
	10.5	Steering design			Electronic	Electronic
	10.7	Sound pressure level at the driver's ear		dB(A)	70	70
	15.1	Charger output current		A	200	200

If there are improvements of technical parameters or configurations, no further notice will be given.  
The diagram shown may contain non-standard configurations.







## Mast Option

### CQD16LB

Mast types	Lift height ( h3 ) mm	Height, Mast			Height, Free lift(h2)	
		Height, mast lowered(h1) mm	Height, mast extended(h4)		No backrest mm	With backrest mm
			No backrest mm	With backrest mm		
3-Free Mast	4655	2110	5390	5720	1182	1052
	5155	2476	5890	6220	1548	1418
	5755	2476	6490	6820	1548	1418
	6255	2910	6990	7320	1982	1852
	6655	2910	7390	7720	1982	1852
	6955	2910	7690	8020	1982	1852
	7255	3376	7990	8320	2448	2318
	7555	3376	8290	8620	2448	2318
	7955	3376	8690	9020	2448	2318
	8255	3376	8990	9320	2448	2318
	8555	3910	9290	9620	2980	2850
	8955	3910	9690	10020	2980	2850
9155	3910	9890	10220	2980	2850	
9455	3910	10190	10520	2980	2850	

### CQD20LB

Mast types	Lift height ( h3 ) mm	Height, Mast			Height, Free lift(h2)	
		Height, mast lowered(h1) mm	Height, mast extended(h4)		No backrest mm	With backrest mm
			No backrest mm	With backrest mm		
3-Free Mast	4000	1965	4720	5060	1080	900
	4500	2135	5220	5560	1260	1070
	5000	2300	5720	6060	1420	1235
	5500	2465	6220	6560	1580	1400
	6000	2635	6720	7060	1760	1570
	6500	2800	7220	7560	1920	1735
	7000	3045	7720	8060	2160	1890
	7500	3215	8220	8560	2340	2150
	8000	3380	8720	9060	2500	2315
	8500	3600	9220	9560	2720	2535
	9000	3765	9720	10060	2880	2700
	9500	3935	10220	10560	3060	2870

# Option

Optional items	CQD16LB	CQD20LB
Fork dimension	<ul style="list-style-type: none"> <li>○No</li> <li>○100*40*920●100*40*1150</li> <li>○100*40*1070○100*40*1220</li> <li>○100*40*1370○100*40*1500</li> <li>○100*40*1600</li> </ul>	<ul style="list-style-type: none"> <li>○No○1000*600、2A、122*40*920</li> <li>●1000*600、2A、122*40*1070</li> <li>○1000*600、2A、122*40*1150</li> <li>○1000*600、2A、122*40*1220</li> <li>○1000*600、2A、122*40*1370</li> <li>○1000*600、2A、122*40*1500</li> <li>○1000*600、2A、122*40*1600</li> </ul>
Reach lift truck Leg width	●917	●917
Fork carriage width	●770mm	●770mm
Load backrest height	●1020mm	●1020mm
Load wheel type	●Single	●Single
Load wheel material	●PU	●PU
Drive wheel material	●PU	●PU
Battery capacity	●405Ah (Li-ion)○No	●405Ah (Li-ion)○No
Charger	<ul style="list-style-type: none"> <li>●48V200A Li-ion External</li> <li>○48V150A Li-ion External</li> <li>○No</li> </ul>	<ul style="list-style-type: none"> <li>●48V200A Li-ion External</li> <li>○48V150A Li-ion External</li> <li>○No</li> </ul>
Seat type	<ul style="list-style-type: none"> <li>●Suspension + safety belt logic switch</li> <li>○Suspension with armrest + safety belt logic switch</li> </ul>	<ul style="list-style-type: none"> <li>●Suspension + safety belt logic switch</li> <li>○Suspension with armrest + safety belt logic switch</li> </ul>
Attachments	●Built-in sideshifter	●Built-in sideshifter
Electrostatic discharge chain	●No○Yes and not customized	●No○Yes and not customized
Guard board	●Yes	●Yes
Castor wheels	●Yes and not customized	●Yes and not customized
Front lamp	●LED	●LED
Rear lamp	●No○LED	●No○LED
Warning lamp	●Yes and not customized	●Yes and not customized
Blue lamp	●No○Yes and not customized	●No○Yes and not customized
Area warning lamp	●No○Yes and not customized	●No○Yes and not customized
Rearview mirror	●Yes and not customized	●Yes and not customized
Buzzer	●No○Yes and not customized	●No○Yes and not customized
Height display	●Yes and not customized	●Yes and not customized
Camera	●No○Yes and not customized	●No○Yes and not customized
Fire extinguisher holder	●No○Yes and not customized	●No○Yes and not customized
OPS system	●Yes and not customized	●Yes and not customized
Telematics	●No○Yes and not customized	●No○Yes and not customized
Turn speed control	●Yes and not customized	●Yes and not customized
Heating system for lithium battery charging	●No○Yes and not customized	●No○Yes and not customized
Speed reduction with elevated mast	●Yes and not customized	●Yes and not customized
Operator identification device	<ul style="list-style-type: none"> <li>●No○Card reader○Fingerprint lock</li> <li>○Keypad with card reader</li> </ul>	<ul style="list-style-type: none"> <li>●No○Card reader○Fingerprint lock</li> <li>○Keypad with card reader</li> </ul>
Cold storage	●No○Yes and not customized	●No○Yes and not customized
Drive assembly	●ZK25	●ZK25
Forks tilt forward and backward	●Yes and not customized	●Yes and not customized
Overhead guard	●Yes○Driver-in	●Yes○Driver-in
Hydraulic lever system	●Joystick	●Joystick
Note: ●Standard ○ Optional - Inconformity		

# Option

Optional items	CQD20LB (NON-CE)
Fork dimension	○No○1000*600、2A、122*40*920●1000*600、2A、122*40*1070 ○1000*600、2A、122*40*1150○1000*600、2A、122*40*1220 ○1000*600、2A、122*40*1370○1000*600、2A、122*40*1500 ○1000*600、2A、122*40*1600
Reach lift truck Leg width	●917
Fork carriage width	●770mm
Load backrest height	●1020mm
Load wheel type	●Single
Load wheel material	●PU
Drive wheel material	●PU
Battery capacity	●280Ah-Li○405Ah-Li○560Ah-Li○No
Charger	●48V-100A-Li External ○48V-200A-Li External ○48V-150A-Li External ○No
Seat type	●Suspension ○Suspension + safety belt logic switch
Attachments	●Built-in sidershifter
Electrostatic discharge chain	●No○Yes and not customized
Guard board	●No○Yes and not customized
Castor wheels	●Yes and not customized
Front lamp	●LED
Rear lamp	●No○LED
Warning lamp	●Yes and not customized
Blue lamp	●No○Yes and not customized
Area warning lamp	●No○Yes and not customized
Rearview mirror	●Yes and not customized
Buzzer	●No○Yes and not customized
Height display	●Yes and not customized
Camera	●No○Yes and not customized
Fire extinguisher holder	●No○Yes and not customized
OPS system	●Yes and not customized
Telematics	●No○Yes and not customized
Turn speed control	●Yes and not customized
Heating system for lithium battery charging	●No○Yes and not customized
Speed reduction with elevated mast	●Yes and not customized
Operator identification device	●No○Card reader○Fingerprint lock ○Keypad with card reader
Cold storage	●No○Yes and not customized
Drive assembly	●ZK25○GK25
Forks tilt forward and backward	●Yes and not customized
Overhead guard	●Yes○Driver-in
Hydraulic lever system	●Joystick
Note:	●Standard ○ Optional - Inconformity