

# CQD20LB

# Li-ion Reach Truck 2000kg

- Lithium technology for great effectiveness
- Multi-functional configurations for easy operation
- Enhanced mast with better visibility and safety
- Easy maintenance
- Low center of gravity for stability
- Spacious operation space

## **PROFEN EARTHMOVING TRADING L.L.C**

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# Lithium technology for great effectiveness

CQD20LB adopts 48V/280Ah Li-ion battery as standard and it features zero battery maintenance and opportunity charging during breaks. This makes CQD20LB a flexible and cost-effective tool to store and retrieve pallets in multi working shifts. Plus, the charging port is protected by a cover from water and dust ingress for charging safety.



### Multi-functional configurations for easy operation

CQD20LB is of tremendous help to the operator with full-color display, electric steering, joystick system as well as proportional lifting system, which the operator can take advantage of to handle loads more easily and precisely.



#### Spacious operation space

CQD20LB offers spacious legroom and a suspension seat to fulfill the ergonomic needs and ensure effective operation.



### Enhanced mast with better visibility and safety

CQD20LB'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 height up to 9.5m and perform full lifting capacity up to 6.5 m.



### Easy maintenance

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



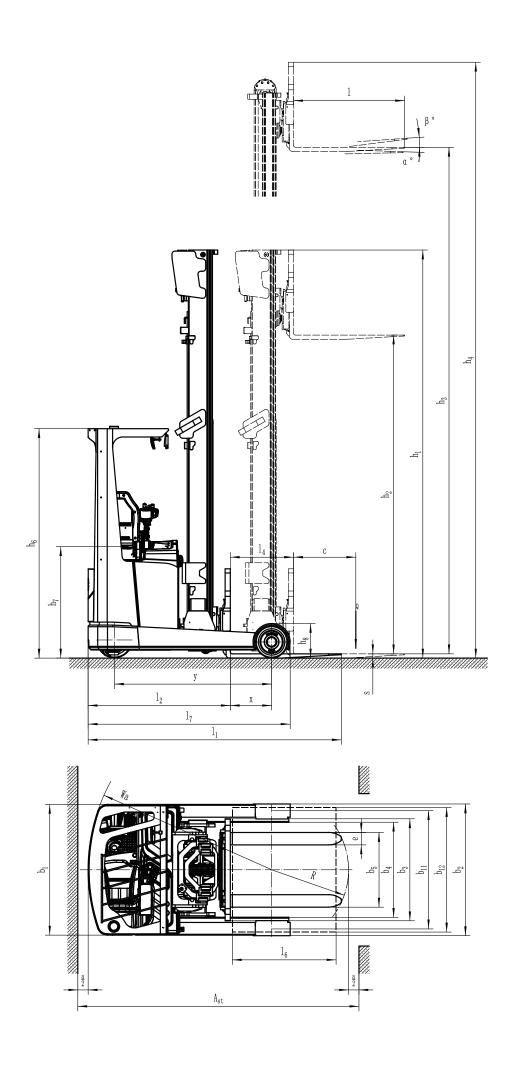
#### Low center of gravity for stability

CQD20LB has a robust chassis with low center of gravity and provides driving stability and reduces the risk of accidents.

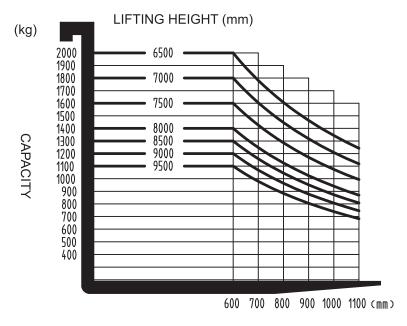
# Li-ion Reach Truck 2000kg CQD20LB

	1.1	Manufacturer			PR <b>®LIFT</b>
×	1.2	Model designation			CQD20LB
mar	1.3	Drive unit			Electric
ing	1.4	Operator type			Seated
Distinguishing mark	1.5	rated capacity	Q	kg	2000
ting	1.6	Load center distance	С	mm	600
iš	1.8	Load distance, centre of drive axle to fork	×	mm	399
	1.9	Wheelbase	y	mm	1515
差	2.1	Service weight	,	kg	3940
veig	2.3.1	Axle loading, unladen front/rear		kg	2465/1490
Service weight	2.4.1	Axle loading, fork advanced, laden front/rear		kg	635/5340
ervi	2.5.1	Axle loading, fork advanced, laden front/rear		kg	2165/3800
o	3.1	Tyre type		Ng	Polyurethane
	3.2.1	Tyre size, front		mm	ф343×140
<u>.w</u>					
Tyres/chassis	3.3.1	Tyre size, rear		mm	Ф310×118
o/sə.	3.4	Additional wheels		mm	Φ102×51
Ę	3.5.1	Wheels, number front/rear (x=drive wheels)		mm	1x/2
	3.6.1	Tread, front	b10	mm	-
	3.7.1	Tread, rear	b11	mm	1148
	4.1	Tilt of mast/fork carriage forward/backward	α/β	0	2/4
	4.2	Height, mast lowered	h1	mm	3935
	4.3	Free lift	h2	mm	2870
	4.4	Lift height	h3	mm	9500
	4.5	Height, mast extended	h4	mm	10560
	4.7	Height of overhead/ guard cabin	h6	mm	2213
	4.8	Seat height/standing height	h7	mm	1076
	4.10	Height of wheel arms	h8	mm	333
	4.19	Overall length	I1	mm	2443
	4.20	Length to face of forks	<b>l</b> 2	mm	1373
ions	4.21	Overall width	b1/b2	mm	1260/1270
Dimensions	4.22	Fork dimensions	s/e/I	mm	40/120/1070
E E	4.23	A,B Fork carriage class/type A, B			2A
	4.24	Fork carriage width	b3	mm	990
	4.25	Distance between fork-arms	b5	mm	240/770
	4.26	Distance between wheel arms/loading surfaces	b4	mm	915
	4.28	Reach distance	<b>I</b> 4	mm	610
	4.31	Ground clearance, laden, below mast	m1	mm	70
	4.32	Ground clearance, center of wheelbase	m2	mm	80
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2835
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	2885
	4.35	turning radius	Wa	mm	1770
	4.37	Length across wheel arms	<b>I</b> 7	mm	1948
	5.1	Travel speed, laden/unladen		km/ h	10/11
話	5.2	Lifting speed, laden/unladen		m/s	0.45/0.55
e da	5.3	Lowering speed, laden/unladen		m/s	0.5/0.45
Performance data	5.4	Reaching speed, laden /unladen		m/s	0.15/0.15
orm	5.8	Max. gradeability, laden/unladen		%	10/15
Perf	5.10	Service brake			Electromagnetic
	5.11	Parking brake			Electromagnetic
<u>е</u>	6.1	Drive motor rating S2 60 min		kW	7
ngir	6.2	Lift motor rating at S3 15%		kW	20
	6.4	Battery voltage/nominal capacity		V/Ah	48/280
Electric≁engine	6.5	Battery weight		kg	250
	8.1	Type of drive unit		~9	AC
Addition data	10.5	Steering design		Electronic	
	10.5	ound pressure level at the driver's ear		dB(A)	70
	15.1	Charger output current		A A	100
	10.1	Griarger output current			100

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



#### RATED CAPACITIES GRAPH



LOAD CENTER (mm)

# Mast Option

	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
Most types		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest
Mast types	( )		No backrest	With backrest	No backrest	Willi backiest
	mm	mm	mm	mm	mm	mm
	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
3-Free Mast	6500	2800	7220	7560	1920	1735
5-Fiee Mast	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

Sheat floor@foo. 2A. 122499360+1007900; 2A. 1224011500 Fork dimension  Fork di						
Fork dimension	Optional items	CQD20LB				
Fork carriage width Load wheel type Load wheel type Load wheel material Battery capacity Charger  ### ### ### ### ### ### ### ### ### #	Fork dimension	○1000*600、2A 、122*40*1150○1000*600、2A 、122*40*1220 ○1000*600、2A 、122*40*1370○1000*600、2A 、122*40*1500				
Load wheel type Load wheel type Load wheel type Load wheel type Load wheel material Drive wheel material PU Drive wheel material PU Saltery capacity  \$280Ah-Li-0406Ah-Li-0560Ah-Li-0No Charger \$48V-100A-Li External-48V-200A-Li External-48V-150A-Li External-No Seat type \$49Ves and not customized \$40Ves and not cust	Reach lift truck Leg width	•917				
Load wheel type Load wheel material Drive wheel material Drive wheel material Drive wheel material Drive wheel material Battery capacity  • 48V-100A-Li Extermal-48V-200A-Li Extermal-48V-150A-Li Extermal-No Seat type • \$\suspension \suspension \su	Fork carriage width	●770mm				
Load wheel material Drive wheel material Drive wheel material Battery capacity  • 280AH-Li-405AH-Li-550AH-Li-No  Charger  • 48V-100A-Li External-48V-200A-Li External-48V-150A-Li External-No  • Suspension-Suspension + safety belt logic switch  Attachments  Castor wheels  Front lamp  • LED  Rear lamp  • No-LED  Warning lamp  • No-Yes and not customized  Blue lamp  • No-Yes and not customized  Area warning lamp  • No-Yes and not customized  Blue lamp  • No-Yes and not customized  Height display  • No-Yes and not customized  Height display  • No-Yes and not customized  Frie extinguisher  OPS system  • No-Yes and not customized  • No-Yes and not customized  Telematics  • No-Yes and not customized  • No-Yes and not customized  • No-Yes and not customized  Turn deceleration  • Yes and not customized  • No-Yes and not customized  • Yes and not customized	Load backrest height	●820mm				
Price wheel material Battery capacity  Charger	Load wheel type	●Single				
Battery capacity  -280Ah-Li-405Ah-Li-560Ah-Li-No Charger  -448V-100A-Li External -48V-200A-Li External -48V-150A-Li External -48V-200A-Li External -48V-200ALLI  -18DE -48DE	Load wheel material	•PU				
tharger  seat type  suspension Suspension + safety belt logic switch  Attachments  suspension Suspension + safety belt logic switch  substantier  substant	Drive wheel material	∙PU				
Seat type  Suspension-Suspension + safety belt logic switch Attachments  Built-in sideshifter  Castor wheels  Front lamp  Rear lamp  Noo-LED  Warning lamp  Noo-Yes and not customized  Programments  Noo-Yes and not customized  Noo-Yes and not customized  Noo-Yes and not customized  Programment  Noo-Yes and not customized  Programment  Noo-Yes and not customized  Noo-Yes and not customized  Noo-Yes and not customized  Programment  Noo-Yes and not customized  Proportional lift system  Proportional lift	Battery capacity	●280Ah-Li○405Ah-Li○560Ah-Li○No				
Attachments Castor wheels Pront lamp Rear lamp Peter lamp Rear lamp Peter lamp Rear lamp Peter lamp	Charger	●48V-100A-Li External 48V-200A-Li External 48V-150A-Li External No				
Area warning lamp  Blue lamp  Area warning lamp  Buzer  Buzzer  Area warning lamp  Buzer  Buzzer  Area warning lamp  Buzer  Area warning lamp  Buzer  Area warning lamp  Area warning lamp  Buzer  Area warning lamp  Area and not customized  Area warning lamp  Area and not customized  Area and not c	Seat type	●Suspension Suspension + safety belt logic switch				
Front lamp  Rear lamp  NooLED  Warning lamp  NooYes and not customized  Blue lamp  NooYes and not customized  Area warning lamp  NooYes and not customized  Rearview mirror  NooYes and not customized  Height display  NooYes and not customized  Height display  NooYes and not customized  NooYes and not customized  NooYes and not customized  Price extinguisher  NooYes and not customized  NooYes and not customized	Attachments	●Built-in sideshifter				
Rear lamp  Ayes and not customized  Area warning lamp  Ayes and not customized  Buzzer  Anon'yes and not customized  Buzzer  Anon'yes and not customized  Area warning lamp  Ayes and not customized  Area warning lamp  Anon'yes and not customized  Area warning lamp  Anon'yes and not customized  Anon'yes and customized  Anon'yes and customized  Anon'yes and customized  Anon'yes and not customized  Anon'yes and anot customized  Anon'yes anon'y	Castor wheels	●Yes and not customized				
Warning lamp  Blue lamp  Area warning lamp  Reanview mirror  Buzzer  Area (No-Yes and not customized)  Area warning lamp  Area (No-Yes and not customized)  Area warning lamp  Area (No-Yes and not customized)  Area (Ano-Yes and customized)  Area (Ano-Yes and customized)  Area (Ano-Yes and customized)  Area (Ano-Yes and not customized)  Ano-Yes and not customized  Ano-Yes and	Front lamp	•LED				
Blue lamp  •Noo'Yes and not customized  Area warning lamp  Rearview mirror  •Yes and not customized  Buzzer  •Noo'Yes and not customized  Height display  •Yes and not customized  •Yes and not customized  •Yes and not customized  •Noo'Yes and not customized  •Noo'Yes and not customized  •Noo'Yes and not customized  OPS system  •Noo'Yes and not customized  OPS system  •Yes and not customized  •Noo'Yes and not customized  •Noo'Yes and not customized  •Noo'Yes and not customized  •Noo'Yes and customized  •Noo'Yes and customized  •Noo'Yes and customized  •Noo'Yes and not customized  •Yes and not customized  •Yes opnive-in  •Yes opnive-in  •Yes opnive-in  •Yes opnive-in  •Yes opnive-in  •Yes and not customized  •Yes and not customized	Rear lamp	•NooLED				
Area waming lamp Rearview mirror  Buzzer  Noo'Yes and not customized  Height display  OPES and not customized  Noo'Yes and not customized  OPS system  OPS system  OPS system  OPS and not customized  Noo'Yes and not customized  Noo'Yes and not customized  Noo'Yes and not customized  Noo'Yes and customized  Noo'Yes and customized  Noo'Yes and customized  Noo'Yes and not customized	Warning lamp	●Yes and not customized				
Reanview mirror  Pyes and not customized  Buzzer  NooYes and not customized  Proportional lift system  Proportional lift system  Proportional lift system  Proportional guard  Pyes and not customized  Pyes and not customized	Blue lamp	No⊙Yes and not customized				
Buzzer  •No∘Yes and not customized  Height display  •Yes and not customized (Only for 3-Free Mast)  Camera  •No∘Yes and not customized  •No∘Yes and not customized  Fire extinguisher  •No∘Yes and not customized  OPS system  •Yes and not customized  Telematics  •No∘Yes and not customized  •No∘Yes and not customized  Speed reduction for elevated mast- Australian standard  Turn deceleration  •Yes and customized  Heating system during lithium battery charging  •No∘Yes and rot customized  Heating system during lithium battery charging  •No∘Yes and not customized  Operator identification device  Battery side pull function  •No  Cold storage  •No∘Swipe card device∘card and password combination device  Battery side pull function  •No  Cold storage  •No∘Yes and not customized  •Yes and not customized	Area warning lamp	No∘Yes and not customized				
Height display  Oramera  No∘Yes and not customized  No∘Yes and not customized  No∘Yes and not customized  No∘Yes and not customized  Presentinguisher  OPS system  Presentinguisher  No∘Yes and not customized  No∘Yes and not customized  No∘Yes and not customized  No∘Yes and not customized  No∘Yes and customized  No∘Yes and customized  No∘Yes and customized  No∘Yes and customized  Presenting system during lithium battery charging  Travel deceleration function after mast lifting  No∘Yes and not customized  No∘Yes and not customized  No∘Yes and not customized  No∘Yes and not customized  No∘Swipe card device∘card and password combination device  Battery side pull function  No∘  Cold storage  No∘Yes and not customized  Proportional lift system  Present not customized	Rearview mirror	●Yes and not customized				
Camera       ●No∘Yes and not customized         Fire extinguisher       ●No∘Yes and not customized         OPS system       ●Yes and not customized         Telematics       ●No∘Yes and not customized         Speed reduction for elevated mast- Australian standard       ●No∘Yes and customized         Turn deceleration       ●Yes and customized         Heating system during lithium battery charging       ●No∘Yes and not customized         Travel deceleration function after mast lifting       ●No∘Yes and not customized         Operator identification device       ●No∘Swipe card device∘card and password combination device         Battery side pull function       ●No∘Yes and not customized         Cold storage       ●No∘Yes and not customized         Proportional lift system       ●Yes and not customized         Forks tilt forward and backward       ●Yes and not customized         Overhead guard       ●Yes oPriver-in         Drive assembly       ●EP25         Solenoid valve system       ●Yes and not customized	Buzzer	●No⊙Yes and not customized				
Fire extinguisher  OPS system  •No∘Yes and not customized  Telematics  •No∘Yes and not customized  Speed reduction for elevated mast- Australian standard  Turn deceleration  •Yes and customized  •Yes and customized  •Yes and customized  Heating system during lithium battery charging  •No∘Yes and not customized  Travel deceleration function after mast lifting  •No∘Yes and not customized  Operator identification device  Battery side pull function  •No  Cold storage  •No∘Yes and not customized  •Yes and not customized  •Yes and not customized  •Yes and not customized  •Yes or Driver-in  •Yes or Driver-in  •Yes olenoid valve system  •Yes and not customized	Height display	●Yes and not customized (Only for 3-Free Mast)				
OPS system  Pelematics  Noo'Yes and not customized  Noo'Yes and not customized  Noo'Yes and not customized  Proportional lift system  Noo'Yes and not customized  Proportional lift system  Pyes and not customized  Pyes and not customized  Overhead guard  Pyes oDriver-in  Drive assembly  Solenoid valve system  Pyes and not customized  Pyes and not customized	Camera	No∘Yes and not customized				
Telematics  Speed reduction for elevated mast- Australian standard  Turn deceleration  Heating system during lithium battery charging  Travel deceleration function after mast lifting  Operator identification device  Battery side pull function  Cold storage  Proportional lift system  Forks tilt forward and backward  Overhead guard  Overhead guard  One of the system  One of the system  Overhead guard  Overhead system  One of the system  One of the system  Overhead guard  Overhead system  One of the system  Overhead guard  Overhead system	Fire extinguisher	●No⊙Yes and not customized				
Speed reduction for elevated mast- Australian standard  Turn deceleration  •Yes and customized  •NooYes and oustomized  •NooYes and not customized  •NooYes and not customized  •NooYes and not customized  •NooYes and not customized  •NooSwipe card device-card and password combination device  Battery side pull function  •No  Cold storage  •NooYes and not customized  •NooYes and not customized  •NooYes and not customized  •NooYes and not customized  •Yes and not customized	OPS system	●Yes and not customized				
Turn deceleration  •Yes and customized  Heating system during lithium battery charging  •NooYes and not customized  Travel deceleration function after mast lifting  •NooSwipe card device-card and password combination device  Battery side pull function  •No  Cold storage  •NooYes and not customized  •NooYes and not customized  •NooYes and not customized  Forbital forward and backward  •Yes and not customized  •Yes and not customized  •Yes oDriver-in  Drive assembly  •Yes and not customized  •Yes and not customized  •Yes and not customized	Telematics	●No⊙Yes and not customized				
Heating system during lithium battery charging  Travel deceleration function after mast lifting  Operator identification device  Battery side pull function  Cold storage  Proportional lift system  Forks tilt forward and backward  Overhead guard  Drive assembly  NooYes and not customized  NooYes and not customized  Yes and not customized  Yes and not customized  Yes oDriver-in  EP25  Solenoid valve system  NooYes and not customized  Yes and not customized	Speed reduction for elevated mast- Australian standard	No∘Yes and customized				
Travel deceleration function after mast lifting  Operator identification device  Battery side pull function  Old storage  Proportional lift system  Forks tilt forward and backward  Overhead guard  Drive assembly  Solenoid valve system  NooYes and not customized  NooYes and not customized  Yes and not customized  Yes and not customized  Yes oDriver-in  EP25  Solenoid valve system  NooYes and not customized  Yes and not customized  Yes oDriver-in  Yes and not customized	Turn deceleration	●Yes and customized				
Operator identification device  Battery side pull function  Cold storage  Proportional lift system  Forks tilt forward and backward  Overhead guard  Drive assembly  Solenoid valve system  No Swipe card device card and password combination device  No Swipe card device card and password combination device  No Swipe card device card and password combination device  No Swipe card device card and password combination device  No Swipe card device card and password combination device  No Swipe card device card and password combination device	Heating system during lithium battery charging	No∘Yes and not customized				
Battery side pull function  Cold storage  Proportional lift system  Forks tilt forward and backward  Overhead guard  Drive assembly  Solenoid valve system  No  No  No  No  No  No  No  No  Yes and not customized  Yes and not customized  Yes oDriver-in  EP25  Solenoid valve system  No  No  Yes and not customized  Yes on on to customized	Travel deceleration function after mast lifting	●No∘Yes and not customized				
Cold storage  Proportional lift system  Proportional lift system  Proks tilt forward and backward  Overhead guard  Prover assembly  Solenoid valve system  Prove and not customized  Pres and not customized	Operator identification device	●No∘Swipe card device∘card and password combination device				
Proportional lift system  •Yes and not customized  •Yes and not customized  •Yes and not customized  •Yes oDriver-in  Drive assembly  •EP25  Solenoid valve system  •Yes and not customized	Battery side pull function	•No				
Forks tilt forward and backward  Overhead guard  Overhead guard  Orive assembly  Solenoid valve system  •Yes and not customized  •Yes oDriver-in  •EP25  •Yes and not customized	Cold storage	No∘Yes and not customized				
Overhead guard  Overhead guard  Overhead guard  Overhead guard  •Yes oDriver-in  •EP25  Solenoid valve system  •Yes and not customized	Proportional lift system	●Yes and not customized				
Drive assembly  •EP25  Solenoid valve system  •Yes and not customized	Forks tilt forward and backward	●Yes and not customized				
Solenoid valve system   •Yes and not customized	Overhead guard	●Yes∘Driver-in				
	Drive assembly	●EP25				
Note: ●Standard ○ Optional - Inconformity	Solenoid valve system	●Yes and not customized				
·	Note: •Standard o Optional - Inconformity					

Repair & Maintenance

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For Heavy Equipment & Machinery



Our state-of-the-art workshop, located in Al Saja'a Industrial Area, Sharjah, is an excellent support to our experienced and reliable outdoor technicians. Not only is it's location easily accessible from all Northern Emirates, but it is also fully equipped with the requisite tools and tackles to ensure a professional and flawless repair job. So the next time you have a repair, troubleshooting, maintenance or component overhaul job on your hydraulic rock breakers, forklifts or hydraulic components, **Professional Engineers Workshop** is the place to go.

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## **Professional Engineers Workshop**

For Heavy Equipment & Machinery Maintence L.L.C

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