

Li-ion Reach Truck

CQD16LB

LI-ION REACH TRUCK 1.6 T

 1600 kg

 9455 mm

 48 V Li-Ion

product: CQD16, 20LB







The CQD16/20LB series is ideal for high-density warehouses, logistics hubs, and distribution centres. Its optimised mast ensures stability even at full lift height, while proportional lifting provides gentle and accurate handling of heavy or fragile goods. With compact dimensions and tight turning capability, it is well-suited for space-restricted environments. Optional features such as cold storage adaptation, safety warning systems, and telematics make the CQD16/20LB a versatile choice across ...

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-Ion
Battery nominal capacity		Ah	405
Battery voltage		V	48
Load capacity	Q	kg	1600
Load centre distance	c	mm	600
Service weight		kg	3905
Retracted mast height	h ₁	mm	3910
Lift height	h ₃	mm	9455
Height, mast extended	h ₄	mm	3910
Overall length		mm	2460
Overall width	b ₁ /b ₂	mm	1260/1270
Length to face of forks	l ₂	mm	1310
Fork dimensions	s/e/l	mm	40/100/1150
Turning radius		Wa	1640
Operator type			Seated
Load distance, centre of drive axle to fork		mm	331

Features

Compact and agile chassis

With turning radii of only 1640 mm (CQD16LB) and 1770 mm (CQD20LB), the CQD16/20LB is optimised for narrow aisles and high-density storage. Its compact structure allows operators to manoeuvre easily in space-constrained warehouses.

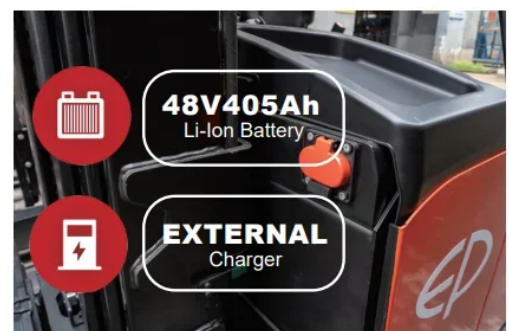


High and stable mast performance

The optimised mast design provides stability and safety even at full height, supporting nominal capacities up to 6.9 m (CQD16LB) and 6.5 m (CQD20LB), with maximum lift heights reaching 12 m for demanding stacking operations.

Advanced Li-ion power system

Equipped with a 48V/405Ah Li-ion battery, the CQD16/20LB delivers long runtime, fast charging, and zero maintenance. The external charging port ensures safe and convenient opportunity charging, making it suitable for multi-shift operations.



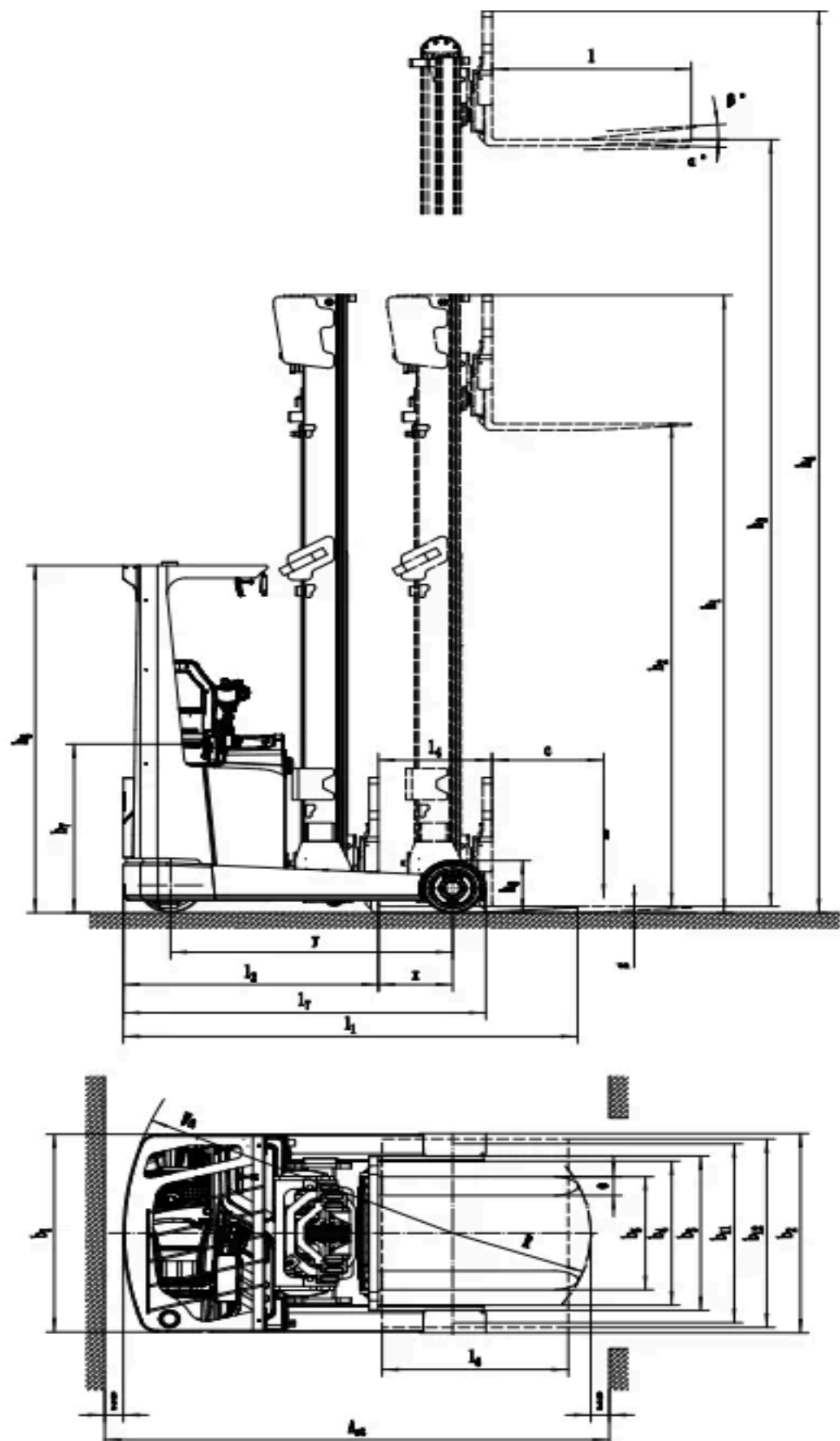
Operator-focused ergonomics

A spacious cabin with wide visibility, suspension seat, ergonomic controls, and electronic steering with damping enhance both comfort and safety. The colour display and proportional joystick provide intuitive handling and precise load positioning.

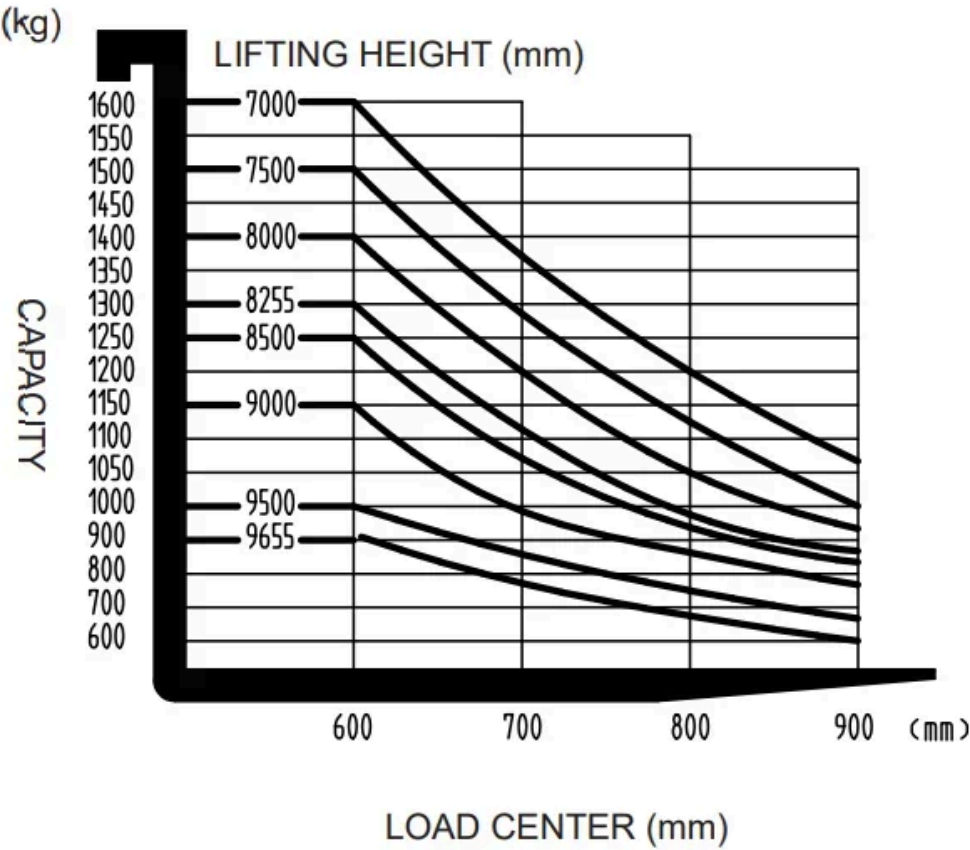
VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Seated
1.5	Load capacity	Q	kg	1600
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork		mm	331
1.9	Wheelbase		mm	1385
2.1	Service weight		kg	3905
2.2	Axle loading, laden front/rear		kg	846/4659
2.3	Axle loading, unladen front/rear		kg	2474/1431
3.1	Tyre type			Polyurethane
3.2	Tyre size, front			Φ343×140
3.3	Tyre size, rear			Φ310×118
3.5	Additional wheels (castor wheels)			Φ102×51
3.5	Wheels, number front/rear (x=drive wheels)			1x/2
3.6	Tread width, front	b ₁₀	mm	-
3.7	Tread width, rear	b ₁₁	mm	1148
4.1	Tilt of mast/fork carriage forward/backward		°	2/4
4.10	Height of wheel arms		mm	333
4.19	Overall length		mm	2460
4.2	Retracted mast height	h ₁	mm	3910
4.20	Length to face of forks	l ₂	mm	1310
4.21	Overall width	b ₁ /b ₂	mm	1260/1270
4.22	Fork dimensions	s/e/l	mm	40/100/1150
4.23	A,B Fork carriage class/type A, B			2A
4.24	Fork carriage width		mm	990
4.25	Distance between fork-arms			200/770
4.26	Distance between wheel arms/loading surfaces			915
4.3	Free lift		mm	2850
4.31	Ground clearance, laden, below mast		mm	70
4.32	Ground clearance, centre of wheelbase		mm	75
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	2738
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	2796
4.35	Turning radius		Wa	1640

SPECIFICATION		REF	UNIT	VALUE
4.4	Lift height	h ₃	mm	9455
4.4.1	Max lift height		mm	9655
4.5	Height, mast extended	h ₄	mm	3910
4.8	Seat height/standing height		mm	1076
5.1	Travel speed, laden/unladen		km/h	10/11
5.10	Service brake			Electromagnetic
5.11	Parking brake			Electromagnetic
5.2	Lifting speed, laden/unladen		m/s	0.45/0.55
5.3	Lowering speed, laden/unladen		m/s	0.5/0.45
5.8	Max. gradeability, laden/unladen		%	10/15
6.1	Drive motor rating S2 60 min		kW	7
6.2	Lift motor rating at S3 15%		kW	20
6.4	Battery nominal capacity		Ah	405
6.4	Battery voltage		V	48
6.4.1	Battery type			Li-Ion
6.5	Battery weight		kg	490
6.5	Charger output current			200
8.1	Type of drive control			AC
10.5	Steering design			Electronic
10.7	Sound pressure level at the drivers ear		dB(A)	70



CQD16LB
RATED CAPACITIES GRAPH



Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
3-Free Mast	4000	1968	4730	5065	1044	915
3-Free Mast	4500	2138	5230	5565	1214	1085
3-Free Mast	5000	2303	5730	6065	1380	1250
3-Free Mast	5500	2468	6230	6565	1544	1415
3-Free Mast	6000	2638	6730	7065	1714	1585
3-Free Mast	6500	2810	7230	7565	1888	1757
3-Free Mast	7000	3048	7730	8065	2124	1995
3-Free Mast	7500	3218	8230	8565	2294	2165
3-Free Mast	8000	3383	8730	9065	2460	2330

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
3-Free Mast	8500	3603	9230	9565	2680	2550
3-Free Mast	9000	3768	9730	10065	2844	2715
3-Free Mast	9655	3930	10385	10720	3008	2877

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	No 100*40*920 100*40*1150 100*40*1070 100*40*1370 100*40*1500 100*40*1600
Leg width	917
Fork carriage width option	770mm
Backrest height	1020mm
Load wheel type	Single
Seat type	Suspension + safety belt logic switch Suspension with armrest + safety belt logic switch
Attachments	Built-in sideshifter
Electrostatic chain	NO Yes and not customized
Load wheel material	PU
Drive wheel material	PU
Battery capacity	405Ah (Li-ion) No
Charger	48V200A Li-ion External 48V150A Li-ion External
Area warning lamp	No Yes and not customized
Buzzer	No Yes and not customized
OPS system	Yes and not customized
Telematics	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
Cold storage	No Yes and not customized

ITEM	OPTIONS (optional items marked in yellow)
Forks tilt forward and backward	Yes and not customized
Overhead guard	Yes Driver-in
Speed reduction for elevated mast-Australian standard	Yes and not customized
Turn speed control	Yes and not customized
Heating system during lithium battery charging	No Yes and not customized
Operator identification device	No Card reader Fingerprint lock Keypad with card reader
Drive assembly	ZK25