



CQD16RVF2

ELECTRIC REACH TRUCK 1.6T

9500 mm 48 V Lead Acid/Li-ion



The CQD16/20RVF2 is ideal for intensive stacking, storage, and retrieval tasks in modern warehouses, distribution centers, and production facilities. With a lifting height of 9.5–12 meters, compact turning radius, and polyurethane wheels for smooth indoor operation, it excels in narrow-aisle environments. The electric power steering system and full AC drive motors enhance productivity and reduce operator fatigue, making it the perfect solution for demanding material handling applications.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			CQD16RVF2
Model designation			CQD16RVF2
Battery voltage		V	48
Service weight		kg	3741
Height, mast lowered	h_1	mm	3219
Lift	h_3	mm	7500
Overall length	l_1	mm	2515
Overall width	b_1/b_2	mm	1270
Length to face of forks	l_2	mm	1445
Drive			Electric
Operator type			Seated
Wheelbase	y	mm	1454
Axle loading, laden front/rear		kg	1600
Axle loading, unladen front/rear		kg	3741
Tyres			Polyurethane
Tyre size, front		mm	$\Phi 343 \times 140$

Features

Superior mast stability and visibility

Featuring a reinforced I-beam mast design and an offset oil-tube layout, the CQD16/20RVF2 offers unmatched visibility and structural rigidity during high lifts. Operators can safely stack up to 12 meters with minimal sway, ensuring consistent precision even under heavy loads



Quiet and powerful hydraulic system

An upgraded hydraulic pump reduces noise levels by 10 dB, providing smoother, quieter operation. This not only improves comfort but also extends component life, making it ideal for long shifts and noise-sensitive environments.

Accurate and effortless operation

The mechanical height indicator provides real-time fork position feedback for precise stacking, while the electric power steering and damping system ensure easy handling. The color display helps monitor battery level, driving speed, and diagnostic codes for simplified operation and maintenance.



Energy-efficient AC drive system

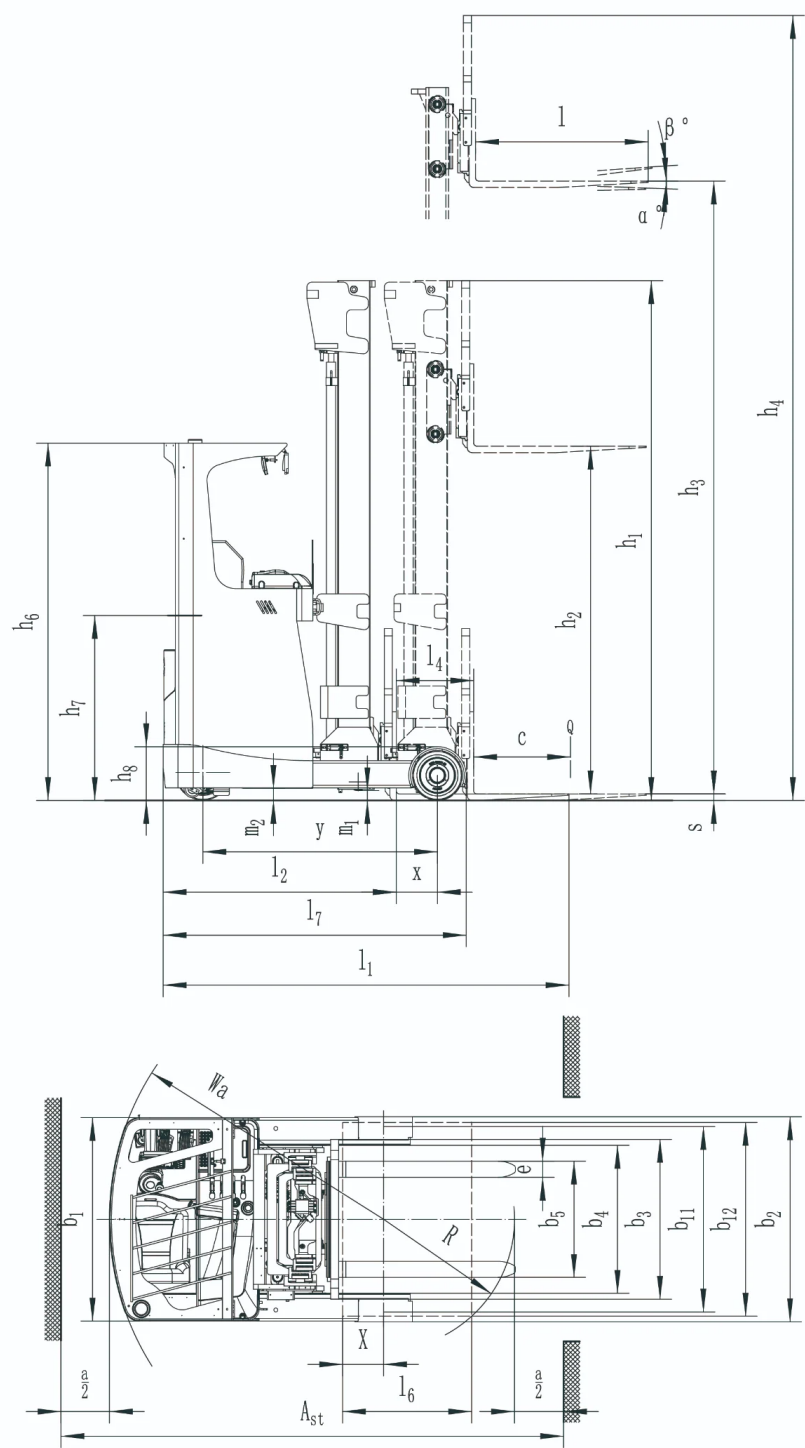
Equipped with full AC motors, the CQD16/20RVF2 delivers smooth acceleration, longer runtime, and reduced energy consumption. The 48V/500–750Ah battery supports extended shifts, and optional Li-ion configurations allow for faster charging and zero maintenance

VDI Chart

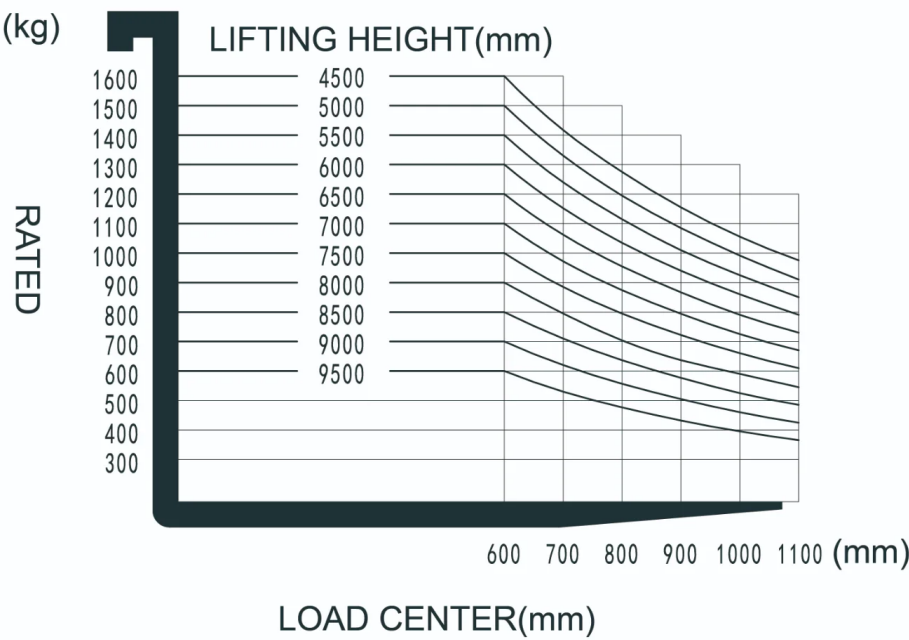
SPECIFICATION		REF	UNIT	VALUE
1.1	Manufacturer			CQD16RVF2
1.2	Model designation			CQD16RVF2
1.3	Drive			Electric
1.4	Operator type			Seated
1.9	Wheelbase	y	mm	1454
2.1	Service weight		kg	3741
2.2	Axle loading, laden front/rear		kg	1600
2.3	Axle loading, unladen front/rear		kg	3741
3.1	Tyres			Polyurethane
3.2	Tyre size, front		mm	Φ343×140
3.3	Tyre size, rear		mm	Φ310×118
3.4	Additional wheels (castor wheels)		mm	Φ102×51
3.5	Wheels, number front/rear (x=drive wheels)			1x/2
3.7	Tread width, rear	b ₁₁	mm	1148
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	2/4
4.2	Height, mast lowered	h ₁	mm	3219
4.2.1	Overall height		mm	8565
4.3	Free lift	h ₂	mm	1712
4.4	Lift	h ₃	mm	7500
4.7	Height of overhead guard (cabin)	h ₆	mm	2213
4.8	Seat height relating to SIP/stand height	h ₇	mm	1145
4.10	Height of wheel arms		mm	333
4.19	Overall length	l ₁	mm	2515
4.20	Length to face of forks	l ₂	mm	1445
4.21	Overall width	b ₁ /b ₂	mm	1270
4.23	Fork carriage ISO 2328, class/type A, B			2A
4.25	Distance between fork-arms	b ₅	mm	200/770
4.26	Distance between wheel arms/loading surfaces			915
4.31	Ground clearance, laden, below mast		mm	60
4.32	Ground clearance, centre of wheelbase	m ₂	mm	70
4.34.1	Aisle width for pallets 1000×1200 crossways	A _{st}	mm	2873
4.34.2	Aisle width for pallets 800 × 1200 lengthways	A _{st}	mm	2951

SPECIFICATION		REF	UNIT	VALUE
5.1	Travel speed, laden/unladen		km/h	10/11
5.2	Lift speed, laden/unladen		m/s	0.35/0.5
5.3	Lowering speed, laden/unladen		m/s	0.41/0.38
5.8	Max. gradeability, laden/unladen		%	10/15
5.10	Service brake			Electromagnetic
5.11	Parking brake			Electromagnetic
6.2	Lift motor rating at S3 15%		kW	11.75
6.4.1	Battery voltage		V	48
6.4.2	Battery nominal capacity K5		Ah	500
6.4.3	Battery type			Lead Acid/Li-ion
6.5	Battery weight		kg	925
10.5	Steering design			Electronic
10.7	Sound pressure level at the driver's seat		dB(A)	75
15.1	Charger output current		A	60

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.



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)
2-Standard Mast	2700	1980	3280	3765	120	120
2-Standard Mast	3000	2130	3580	4065	120	120
2-Standard Mast	3300	2280	3880	4365	120	120
2-Standard Mast	3640	2450	4220	4705	120	120
2-Standard Mast	4000	2630	4580	5065	120	120
2-Standard Mast	4300	2780	4880	5365	120	120
3-Free Mast	4500	2149	5563	5565	672	672
3-Free Mast	5000	2299	6063	6065	772	772
3-Free Mast	5500	2469	6563	6565	952	952
3-Free Mast	6000	2649	7063	7065	1172	1172
3-Free Mast	6500	2799	7563	7565	1272	1272
3-Free Mast	7000	3049	8063	8065	1532	1532

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	7500	3219	8563	8565	1712	1712
3-Free Mast	8000	3389	9063	9065	1852	1852
3-Free Mast	8500	3609	9563	9565	2072	2072
3-Free Mast	9000	3769	10063	10065	2212	2212
3-Free Mast	9500	3939	10563	10565	2392	2392

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	900*600 2A 100*40*920 900*600 2A 100*40*1070 900*600 2A 100*40*1150 900*600 2A 100*40*1220 900*600 2A 100*40*1370
Leg width	917
Fork carriage width option	770mm
Backrest height	1020mm
Load wheel type	Single
Load wheel material	PU
Drive wheel material	PU
Battery capacity	400Ah 500Ah 560Ah 600Ah 620Ah 405Ah-Li
Charger	48V-60A external 48V-50A external 48V-200A external 48V-150 external
Seat type	Suspension
Attachments	Built-in sideshifter
Castor wheels	Yes and not customized
Water auto-filling system	No 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	Yes and not customized No

ITEM	OPTIONS (optional items marked in yellow)
Camera	No Yes and not customized
Fire extinguisher	Yes and not customized
OPS system	Yes and not customized
Telematics	Yes and not customized No
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 Yes and can be customized (Drive-in)
Battery side pull attachment	No Battery trolley Side pull rack