




# CQD20RVF2

## ELECTRIC REACH TRUCK 2.0T

 2000 kg
  12000 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
Battery type			Lead Acid/Li-ion
Battery nominal capacity K5		Ah	500
Battery voltage		V	48
Rated capacity	Q	kg	2000
Load centre distance	c	mm	600
Service weight		kg	3750
Height, mast lowered	$h_1$	mm	3219
Lift	$h_3$	mm	7500
Height, mast extended	$h_4$	mm	8565
Overall length	$l_1$	mm	2515
Overall width	$b_1/b_2$	mm	1270
Length to face of forks	$l_2$	mm	1445
Fork dimensions	s/e/l	mm	40/120/1070
Turning radius	Wa	mm	1770
Manufacturer			CQD20RVF2
Model designation			FORX

# Features

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## 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.





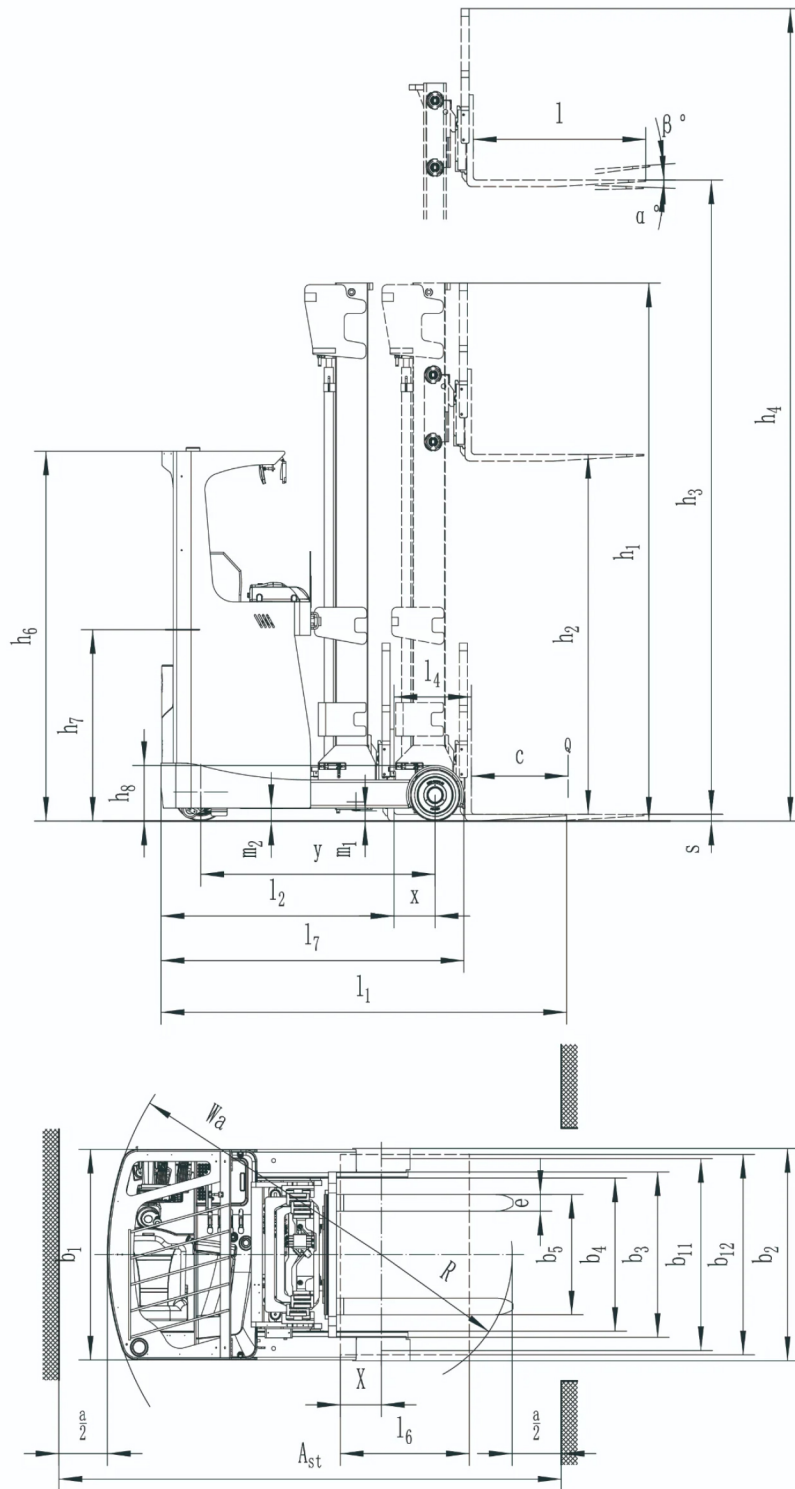
## Energy-efficient AC drive system

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

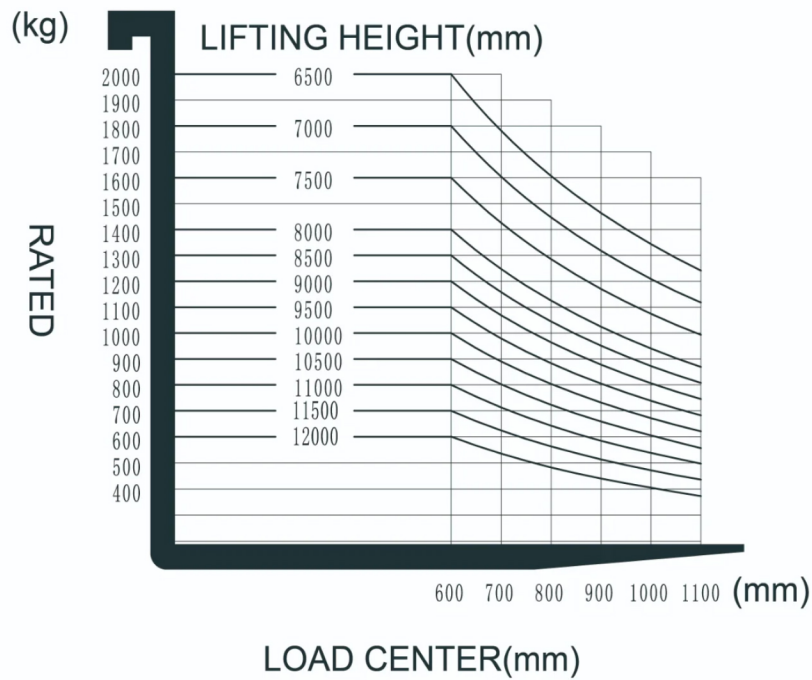
## VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			CQD20RVF2
1.2	Model designation			FORX
1.3	Drive			Electric
1.4	Operator type			Seated
1.5	Rated capacity	Q	kg	2000
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork	x	mm	325
1.9	Wheelbase	y	mm	1524
2.1	Service weight		kg	3750
2.2	Axle loading, laden front/rear		kg	500/5240
2.3	Axle loading, unladen front/rear		kg	2150/1520
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 <sub>11</sub>	mm	1148
4.1	Tilt of mast/fork carriage forward/backward		°	2/4
4.2	Height, mast lowered	h <sub>1</sub>	mm	3219
4.2.1	Overall height		mm	8565
4.3	Free lift	h <sub>2</sub>	mm	1712
4.4	Lift	h <sub>3</sub>	mm	7500

	SPECIFICATION	REF	UNIT	VALUE
4.5	Height, mast extended	$h_4$	mm	8565
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
4.16	Length of loading surface			1070
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
4.22	Fork dimensions	s/e/l	mm	40/120/1070
4.23	Fork carriage ISO 2328, class/type A, B			2A
4.24	Fork carriage width		mm	990
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	2889
4.34.2	Aisle width for pallets 800 × 1200 lengthways	$A_{st}$	mm	2952
4.35	Turning radius	$W_a$	mm	1770
5.1	Travel speed, laden/unladen		km/h	9/9.5
5.2	Lift speed, laden/unladen		m/s	0.35/0.45
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
6.1	Drive motor rating S2 60 min		kW	7
6.2	Lift motor rating at S3 15%		kW	13
6.4	Battery nominal capacity K5		Ah	500
6.4	Battery voltage		V	48
6.4.1	Battery type			Lead Acid/Li-ion
6.5	Battery weight		kg	925
8.1	Type of drive unit			AC
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



## 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
3-Free Mast	10000	4159	11063	11065	2612	2612
3-Free Mast	10500	4329	11563	11565	2792	2792
3-Free Mast	11000	4489	12063	12065	2932	2932
3-Free Mast	11500	4659	12563	12565	3112	3112
3-Free Mast	12000	4819	13063	13065	3252	3252

## Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	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
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

ITEM	OPTIONS (optional items marked in yellow)
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
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