V2303.01

Let's grow together

CQD16-20RV2

Electric Reach Truck 1.6/2.0T

- Optimal visibility
- High stability
- Enjoyable lifting operation
- Easy and precise operation

FEATURE

Optimal visibility

Along with the offset layout of the oil tubes, stacking visibility and operation flexibility of CQD16/20RV2 are greatly improved.

Enjoyable lifting operations

CQD16RV2 and 20RV2 offer powerful performance and quiet operation through the upgraded hydraulic pump and reduces operation noise by 10 dB.

Easy and precise operations

CQD16RV2 and 20RV2 are equipped with mechanic height indicators, that tells operators the correct height of the fork at various rack levels for precise operation to improve the stacking efficiency.

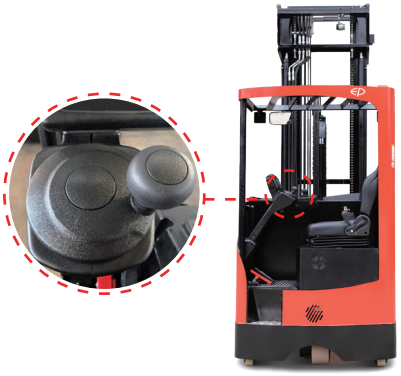
High stability

The low center of gravity and the newly I-beam mast design enhance the truck stability. The maximum lifting height of CQD16RV2 is 9500 mm while the one of CQD20RV2 is 12000 mm.

FEATURE

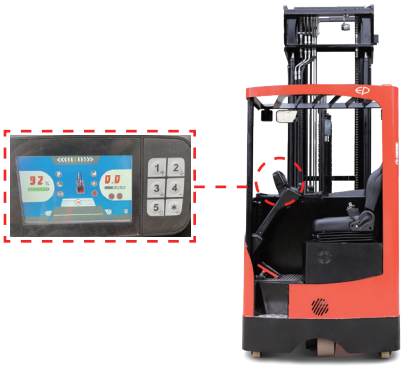
Easy Steering

CQD16/20RV2 come with full AC motors and electric power steering system that consumes less power compared to hydraulic power steering while keeps operation habits of trucks with mechanical steering through the additional damping force. So CQD16/20RV2 give more working hours than ones with hydraulic power steering.



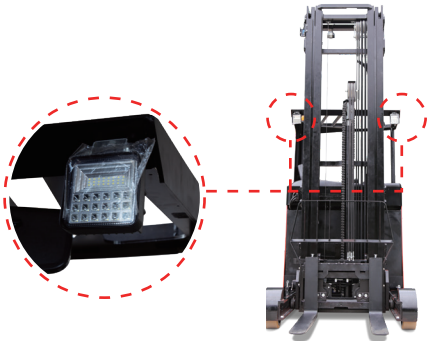
Full-color Display

CQD16/20RV2 are designed with a color display to help operators easily monitor battery charge level, driving speed, and check error codes.



6000K Led Light

CQD16/20RV2 are equipped with 6000K led lights to cope with the dark environment for optimal visibility.

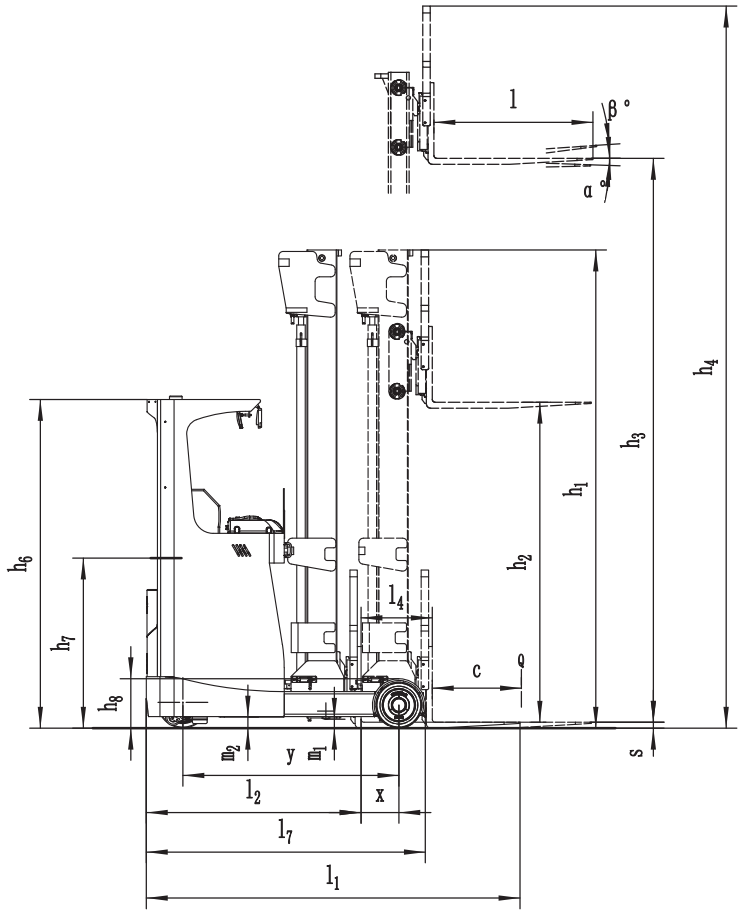


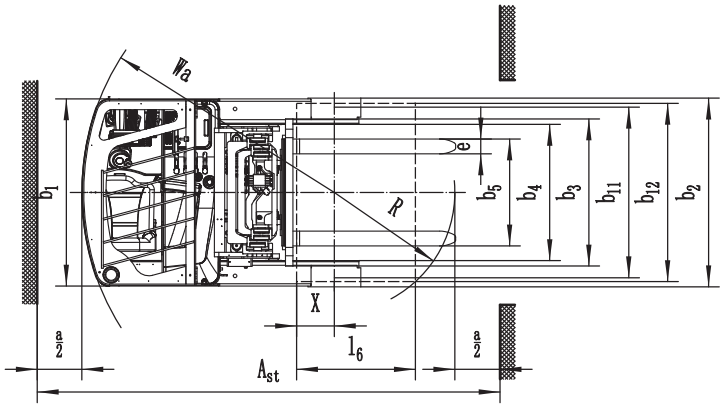
Electric Reach Truck 1.6/2.0T

CQD16-20RV2

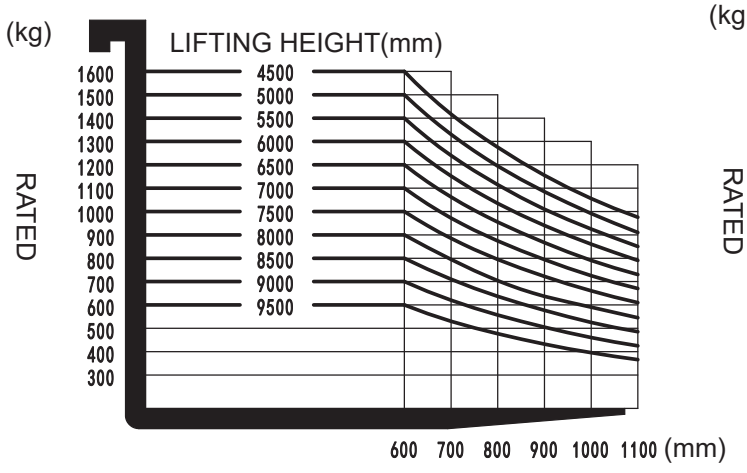
Distinguishing mark	1.1	Manufacturer			EP	EP
	1.2	Model designation			CQD16RV2	CQD20RV2
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	Load capacity	Q	kg	1600	2000
	1.6	Load center distance	c	mm	600	600
	1.8	Load distance，centre of drive axle to fork	x	mm	255	325
	1.9	Wheelbase	y	mm	1454	1524
Service weight	2.1	Service weight		kg	3741	3750
	2.3.1	Axle loading, unladen front/rear		kg	——	2150/1520
	2.4.1	Axle loading, fork advanced, laden front/rear		kg	——	500/5240
	2.5.1	Axle loading, fork retracted, laden front/rear		kg	——	1820/3910
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 (castor 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 width, front	b_{10}	mm	——	-
	3.7.1	Tread width, rear	b_{11}	mm	1148	1148
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	2/4	2/4
	4.2	Retracted mast height	h_1	mm	3219	3219
	4.3	Free lift	h_2	mm	1712	1712
	4.4	Lift height	h_3	mm	7500	7500
	4.5	Height, mast extended	h_4	mm	8565	8565
	4.7	Height of overhead guard (cabin)	h_6	mm	2213	2213
	4.8	Seat height/standing height	h_7	mm	1145	1145
	4.10	Height of wheel arms	h_8	mm	333	333
	4.19	Overall length	l_1	mm	2515	2515
	4.20	Length to face of forks	l_2	mm	1445	1445
	4.21	Overall width	b_1/b_2	mm	1270	1270
	4.22	Fork dimensions	s×e×l	mm	40/100/1070	40/120/1070
	4.23	A,B Fork carriage class/type A, B			2A	2A
	4.24	Fork carriage width	b_3	mm	990	900
	4.25	Distance between fork-arms	b_5	mm	200-770	240-770
	4.26	Distance between wheel arms/loading surfaces	b_4	mm	915	915
	4.28	Reach distance	l_4	mm	480	555
	4.31	Ground clearance, laden, below mast	m_1	mm	60	60
	4.32	Ground clearance, center of wheelbase	m_2	mm	70	70
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2873	2889
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	2951	2952
	4.35	Turning radius	Wa	mm	1700	1770
	4.37	Length across wheel arms	l_7	mm	1878	1948
Performance data	5.1	Travel speed, laden/unladen		km/h	10/11	9/9.5
	5.2	Lifting speed, laden/unladen		m/s	0.35/0.5	0.35/0.45
	5.3	Lowering speed, laden/unladen		m/s	0.41/0.38	0.41/0.38
	5.4	Reaching speed, laden /unladen		m/s	0.18/0.18	0.18/0.18
	5.8	Max. gradeability, laden/unladen		%	10/11	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	11.75	13
	6.4	Battery voltage/nominal capacity		V/Ah	48/500	48/500
	6.5	Battery weight		kg	925	925
Addition data	8.1	Type of drive control			AC	AC
	10.5	Steering design			Electronic	Electronic
	10.7	Sound pressure level at the driver's ear		dB(A)	75	75
	15.1	Charger output current		A	60	60

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

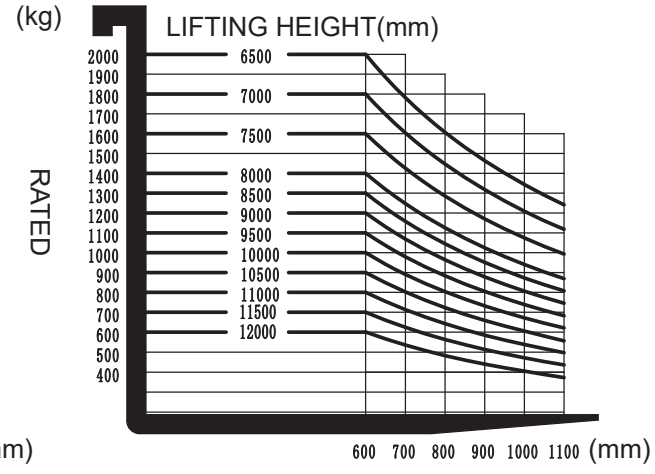




RATED CAPACITIES GRAPH



RATED CAPACITIES GRAPH



Mast Option

①Service weight (include battery)

Mast stages	Mast height(mm)	Model	
		CQD16RV2	CQD20RV2
2-stage mast	2700	3078	3087
	3000	3103	3112
	3300	3127	3136
	3640	3155	3164
	4000	3184	3193
	4300	3208	3217
	4520	3236	3245
	5000	3275	3284
	5480	3317	3326
	6000	3374	3383
Mast stages	Mast height(mm)	Model	
		CQD16RV2	CQD20RV2
3-stage mast	4050	3369	3378
	4500	3411	3420
	5000	3454	3463
	5500	3502	3511
	6000	3551	3560
	6500	3594	3603
	7000	3710	3719
	7500	3741	3750
	8000	3809	3818
	8500	3869	3878
	9000	3928	3937
	9500	3976	3985
	10000	—	4336
	10500	—	4384
	11000	—	4430
	11500	—	4477
	12000	—	4523

③Dimensions(mm)

With side shift		CQD16			CQD20							
Mast stages		2-stage mast	3-stage mast	3-stage mast	2-stage mast	3-stage mast	3-stage mast	3-stage mast	2-stage mast	3-stage mast	3-stage mast	3-stage mast
Mast height h3		h_3≤6m	h_3≤7.5m	8m≤h_3≤9.5m	h_3≤6m	h_3≤7.5m	8m≤h_3≤9.5m	10m≤h3≤12m	h_3≤6m	h_3≤7.5m	8m≤h_3≤9.5m	10m≤h_3≤12m
Battery Capacity		≤600Ah							700Ah, 750Ah			
Wheel base	y	1454	1454	1524	1524	1524	1594	1594	1524	1524	1594	1594
Overall length (minimum)	l1	2515	2515	2515	2515	2515	2515	2515	2585	2585	2585	2585
Length to face of forks	l2	1445	1445	1445	1445	1455	1455	1455	1525	1525	1525	1525
Reach distance	l_4	480	480	555	555	555	625	625	480	480	555	555
Aisle width for pallets 1000×1200 crossways	Ast	2873			2889		2907		2943		2959	
Aisle width for pallets 800×1200 lenthways	Ast	2951			2952		2958		3016		3021	
Aisle width for pallets 1000×1200 lenthways	Ast	2988			2996		3006		3058		3066	
Aisle width for pallets 800×1200 crossways	Ast	2734			2749		2776		2795		2819	
Turning radius (minimum)	W_a	1700			1770		1840		1770		1840	
Length across wheel arms (exclusive fork)	l_7	1878			1948		2018		1948		2018	
Tyre size, loading wheels (diameter×width)	\	Φ310×118					Φ310×208		Φ310×118		Φ310×208	
Overall width	b1/b2	1260/1270					1260/1450		1260/1270		1260/1450	

④Battery

Model	CQD16			
	CQD20RV2			
Battery capacity	4HPzS 500	4HPzS 600	5HPzS 700	5HPzS 750
Battery weight	925	935	1115	1140

②Mast

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest
			No backrest	With backrest		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	2700	1980	3280	3765	120	120
	3000	2130	3580	4065	120	120
	3300	2280	3880	4365	120	120
	3640	2450	4220	4705	120	120
	4000	2630	4580	5065	120	120
	4300	2780	4880	5365	120	120
3-Free Mast	4050	1999	5113	5115	522	522
	4500	2149	5563	5565	672	672
	5000	2299	6063	6065	772	772
	5500	2469	6563	6565	952	952
	6000	2649	7063	7065	1172	1172
	6500	2799	7563	7565	1272	1272
	7000	3049	8063	8065	1532	1532
	7500	3219	8563	8565	1712	1712
	8000	3389	9063	9065	1852	1852
	8500	3609	9563	9565	2072	2072
	9000	3769	10063	10065	2212	2212
	9500	3939	10563	10565	2392	2392

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest
			No backrest	With backrest		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	2700	1980	3280	3765	120	120
	3000	2130	3580	4065	120	120
	3300	2280	3880	4365	120	120
	3640	2450	4220	4705	120	120
	4000	2630	4580	5065	120	120
	4300	2780	4880	5365	120	120
3-Free Mast	4050	1999	5113	5115	522	522
	4500	2149	5563	5565	672	672
	5000	2299	6063	6065	772	772
	5500	2469	6563	6565	952	952
	6000	2649	7063	7065	1172	1172
	6500	2799	7563	7565	1272	1272
	7000	3049	8063	8065	1532	1532
	7500	3219	8563	8565	1712	1712
	8000	3389	9063	9065	1852	1852
	8500	3609	9563	9565	2072	2072
	9000	3769	10063	10065	2212	2212
	9500	3939	10563	10565	2392	2392
	10000	4159	11063	11065	2612	2612
	10500	4329	11563	11565	2792	2792
	11000	4489	12063	12065	2932	2932
	11500	4659	12563	12565	3112	3112
	12000	4819	13063	13065	3252	3252

Option

No.	Optional items	CQD16RV2
1.1	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
1.2	Leg width	●917
1.4	Fork carriage width	●770mm
1.5	backrest height	●1025mm
2.1	Load wheel type	●Single
2.2	Load wheel material	●PU
2.3	Drive wheel material	●PU
2.7	Battery capacity	○400Ah●500Ah○560Ah○600Ah○620Ah○405Ah-Li
2.8	Charger	●48V-60A external○48V-50A external ○48V-200A-Li external○48V-150A-Li external
2.10	Seat type	●Suspension
2.11	Attachments	●Built-in sideshifter
3.3	Castor wheels	●Yes and not customized
3.4	Water auto-filling system	●No○Yes and not customized
3.5	Front lamp	●LED
3.6	Rear lamp	●No○LED
3.7	Warning lamp	●Yes and not customized
3.9	Blue lamp	●No○Yes and not customized
3.10	Area warning lamp	●No○Yes and not customized
3.11	Rearview mirror	●Yes and not customized
3.12	Buzzer	●No○Yes and not customized
3.14	Camera	●No○Yes and not customized
3.15	Fire extinguisher	●No○Yes and not customized
3.17	OPS system	●No○Yes and not customized
3.23	Telematics	●No○Yes and not customized
4.1	Battery side pull function	●No○Yes and not customized
4.2	Cold storage	●No○Yes and not customized
4.6	Forks tilt forward and backward	●Yes and not customized
4.7	Overhead guard	●Yes○Yes and can be customized(Drive-in)
4.8	Drive assembly	●ZK25○GK25
5.1	Battery side pull attachment	●No○Battery trolley○Side pull rack

Note: ●Standard ○ Optional - Inconformity

Option

No.	Optional items	CQD20RV2
1.1	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
1.2	Leg width	●917
1.4	Fork carriage width	●770mm
1.5	backrest height	●1025mm
2.1	Load wheel type	●Single
2.2	Load wheel material	●PU
2.3	Drive wheel material	●PU
2.7	Battery capacity	●500Ah○560Ah○600Ah○620Ah○700Ah○750Ah○775Ah○405Ah-Li
2.8	Charger	●48V-60A external ○48V-70A external○48V-80A external○48V-100A external ○48V-200A-Li external○48V-150A-Li external
2.10	Seat type	●Suspension
2.11	Attachments	●Built-in sideshifter
3.3	Castor wheels	●Yes and not customized
3.4	Water auto-filling system	●No○Yes and not customized
3.5	Front lamp	●LED
3.6	Rear lamp	●No○LED
3.7	Warning lamp	●Yes and not customized
3.9	Blue lamp	●No○Yes and not customized
3.10	Area warning lamp	●No○Yes and not customized
3.11	Rearview mirror	●Yes and not customized
3.12	Buzzer	●No○Yes and not customized
3.14	Camera	●No○Yes and not customized
3.15	Fire extinguisher	●No○Yes and not customized
3.17	OPS system	●No○Yes and not customized
3.23	Telematics	●No○Yes and not customized
4.1	Battery side pull function	●No○Yes and not customized
4.2	Cold storage	●No○Yes and not customized
4.6	Forks tilt forward and backward	●Yes and not customized
4.7	Overhead guard	●Yes○Yes and can be customized(Drive-in)
4.8	Drive assembly	●ZK25○GK25
5.1	Battery side pull attachment	●No○Battery trolley○Side pull rack
Note: ●Standard ○ Optional - Inconformity		