



EP
Let's grow together

CQD16RVF/CQD16RV
CQD16RVH/
CQD20RVF/CQD20RV
Electric Sit-down Reach Truck 1.6/2.0t

- Up to 12M Stacking Height Makes It Possible to Carry Out Order Picking at High Position with Great Intensity;
- International Quality Components;
- Ergonomics Design, Comfortable and Efficient

EP EQUIPMENT CO.,LTD
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Electric Reach Truck 1.6t/2.0t

CQD16RVF/CQD16RV/CQD16RVH/
CQD20RVF/CQD20RV

Distinguishing mark					
1.1	Manufacturer				EP
1.2	Model designation		CQD16RVF	CQD16RV	CQD16RVH CQD20RVF CQD20RV
1.3	Drive unit				Battery
1.4	Operator type				Seated
1.5	rated capacity	Q	t	1.6	2
1.6	Load center distance	c	mm	600	
1.9	Wheelbase	y	mm	1454 ^①	1524 ^①
Weight					
2.1	Service weight (include battery)		kg	2940 ^②	2945 ^②
2.2	Axle loading, fork advanced, unladen driving side/loading side		kg		1700/1310
2.3	Axle loading, fork retracted, unladen driving side/loading side		kg		1990/1020
2.4	Axle loading, fork advanced, laden driving side/loading side		kg		820/3820
2.5	Axle loading, fork retracted, laden driving side/loading side		kg		1640/3000
Types, Chassis					
3.1	Tyre type driving wheels/loading wheels				Polyurethane
3.2	Tyre size, driving wheels (diameter×width)		mm		Φ343×140
3.3	Tyre size, loading wheels (diameter×width)		mm		Φ310×118 ^③
3.4	Tyre size, caster wheels (diameter×width)		mm		Φ102×51 ^④
3.5	Wheels, number driving, caster/loading (x=drive wheels)				1x, 2 ^⑤
3.6	Track width, front, driving wheels	b10	mm		0
3.7	Track width, rear, loading wheels	b11	mm		1148 ^⑥
Dimensions					
4.1	Tilt of mast/fork carriage forward/backward	α/ β	°		2/4
4.2	Height, mast lowered	h1	mm		2130 ^③
4.3	Free lift (load backrest)	h2	mm		120 ^③
4.4	Lift height	h3	mm		3000 ^③
4.5	Height, mast extended	h4	mm		4065 ^③
4.7	Height of overhead guard (cabin)	h6	mm		2210
4.8	Seat height/standing height	h7	mm		1200
4.10	Height of wheel arms	h8(mm)	mm		330
4.19	Overall length (minimum)	l1	mm		2470 ^①
4.20	Length to face of forks	l2	mm		1400 ^①
4.21	Overall width	b1/ b2	mm		1260/1270 ^④
4.22	Fork dimensions	s/ e/ l	mm	40×100×1070	40×120×1070
4.23	Fork carriage class/type A, B		mm		A
4.24	Fork carriage width	b3	mm		990
4.25	Outside width of the forks	b5	mm	200/770	240/770
4.26	Distance between wheel arms/loading surfaces	b4	mm		915
4.28	Reach distance	l4	mm		520 ^①
4.31	Ground clearance, laden, below mast	m1	mm		70
4.32	Ground clearance, center of wheelbase	m2	mm		20 ^⑥
4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast	mm	2827 ^①	2842 ^①
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2891 ^①	2893 ^①
4.35	turning radius	Wa	mm	1705 ^①	1770 ^①
4.37	Length across wheel arms (exclusive fork)	l7	mm	1865 ^①	1935 ^①
Performance data					
5.1	Travel speed, laden/ unladen		km/ h	10/11	9/9.5
5.2	Lifting speed, laden/ unladen		m/ s	0.45/0.52	0.40/0.45
5.3	Lowering speed, laden/ unladen		m/ s	0.45/0.38	0.44/0.40
5.4	Reaching speed, laden / unladen		m/ s		0.1/0.1
5.8	Max. gradeability, laden/unladen		%		10/15
5.10	Service brake type				Electromagnetic
	Park brake type				Electromagnetic
Electric-engine					
6.1	Drive motor rating S2 60 min		kW		6.4
6.2	Lift motor rating at S3 15%		kW	11	8.6 13
6.3	The maximum allowed size battery		mm	1220×355×778	1220×427×778
6.4	Battery voltage/nominal capacity K5		V/ Ah	48/500 ^④	48/400 ^④ 48/500 ^④
6.5	Battery weight		kg	925 ^④	745 ^④ 925 ^④
Addition data					
8.1	Type of drive unit				AC
10.5	Steering type				Electronic
10.7	Sound pressure level at the driver's ear		dB (A)		75

- ①、②、③、④、⑤、⑥ in the parameters is optional configuration , Please see the corresponding schedule ;
- ③ in the CQD20 parameters, When mast lifting height $h_3 \geq 10m$, tyre size of loading wheels for $\Phi 310 \times 208mm$, loading wheels track width for 1238mm, Overall width for 1260/1450mm , center of wheelbase at ground clearance for 20mm .
- ④ in the CQD16 parameters , with two caster wheels and size for $\Phi 102 \times 51mm$ When mast lifting height $h_3 \geq 8m$;
⑤ in the CQD20 parameters , with two caster wheels and size for $\Phi 102 \times 51mm$ When mast lifting height $h_3 < 10m$.

If there are improvements of technical parameters or configurations, no further notice will be given.

The diagram shown may contain non-standard configurations.

①Dimensions(mm)	CQD16				CQD20			
	2-stage mast		3-stage mast		2-stage mast		3-stage mast	
Mast style	h3 < 7m		h3 ≤ 7.5m		h3 < 7m		h3 ≤ 7.5m	
Lift height h ₃	1454		1454		1524		1524	
Battery capacity	y		1524		1594		1594	
Wheelbase	11		1524		1594		1594	
Overall length (minimum)	1454		1524		1594		1594	
Length to face of forks	1402		1433		1437		1498	
Reach distance	520		555		625		490	
Aisle width for pallets	2827		2864		2884		2913	
1000×1200 crossways	2891		2921		2932		2957	
Aisle width for pallets	2932		2967		2977		3002	
1000×1200 lengthways	2686		2728		2757		2769	
800×1200 crossways	1705		1770		1840		1840	
Turning radius	1865		1935		2005		2005	
Length across wheel arms (exclusive fork)	1705		1770		1840		1840	
	1865		1935		2005		2005	

②Service weight (include battery)

Mast height (mm)	Service weight (kg)	
	CQD16RVH	CQD20RV(F)
2-stage mast	CQD16RV(F)	CQD20RV(F)
3000	2760	2945
3300	2790	2975
3640	2820	3005
4000	2850	3035
4300	2880	3065
4520	2910	3095
5000	2940	3125
5480	2970	3155
6000	3000	3185
3-stage mast	CQD16RVH	CQD20RV(F)
4050	3060	3245
4500	3110	3295
5000	3160	3345
5500	3210	3395
6000	3260	3445
6500	3310	3495
7000		3545
7500		3595
8000		3675
8500		3930
9000		3985
9500		4040
10000		4570
10500		4630
11000		4690
12000		4810

④Battery

type	CQD16		CQD20	
	3HPzS 400	4HPzS 500	4HPzS 600	5HPzS 750
Capacity(Ah)	745	925	935	1115
Battery weight (kg)	745	925	935	1140

③Mast

CQD16RVH 2-stage mast:

Lift height	Lowered mast height	Free lift	Extended mast height
h3	h1	h2	h4
2700	1980	120	3765
3000	2130	120	4065
3300	2280	120	4365
3640	2450	120	4705
4000	2630	120	5065
4300	2780	120	5365
4520	2960	160	5585
5000	3200	160	6065
5480	3460	160	6545
6000	3720	160	7065

Note: (*) for without backrest

CQD16-20RV(F) 2-stage mast:

Lift height	Lowered mast height	Free lift	Extended mast height
h3	h1	h2	h4
2700	1980	120	3765
3000	2130	120	4065
3300	2280	120	4365
3640	2450	120	4705
4000	2630	120	5065
4300	2780	120	5365
4520	2960	160	5585
5000	3200	160	6065
5480	3460	160	6545
6000	3720	160	7065

Note: (*) for without backrest

CQD16RVH 3-stage mast (≤6500mm):

Lift height	Lowered mast height	Free lift	Extended mast height
h3	h1	h2	h4
4050	1980	915	5115
4500	2130	1065	5565
5000	2280	1215	6065
5500	2450	1385	6665
6000	2630	1565	7365
6500	2780	1715	8065

Note: (*) for without backrest

CQD16-20RV(F) 3-stage mast (≤7500mm):

Lift height	Lowered mast height	Free lift	Extended mast height
h3	h1	h2	h4
4050	1980	915	5115
4500	2130	1065	5565
5000	2280	1215	6065
5500	2450	1385	6665
6000	2630	1565	7365
6500	2780	1715	8065
7000	3050	1985	8865
7500	3220	2155	9665

Note: (*) for without backrest

CQD20RV(F) 3-stage mast (≥10000mm):

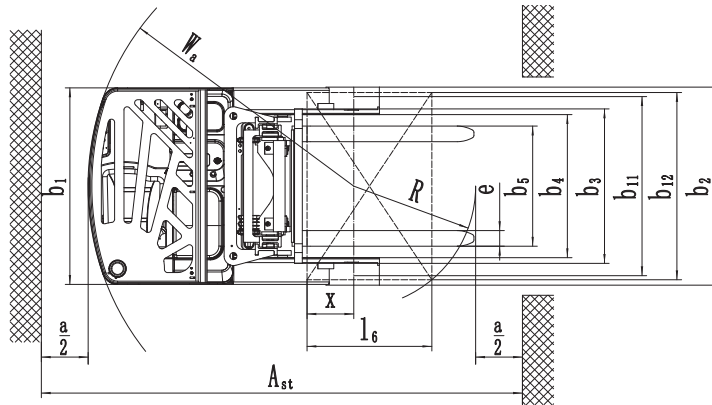
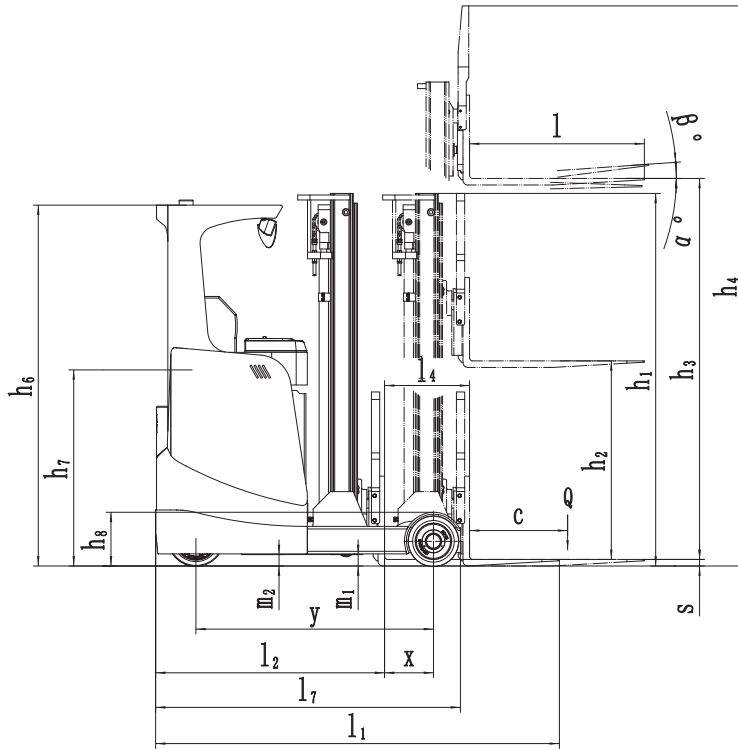
Lift height	Lowered mast height	Free lift	Extended mast height
h3	h1	h2	h4
10000	4160	3095	11065
10500	4330	3265	11565
11000	4490	3425	12065
11500	4660	3595	12565
12000	4820	3755	13065

Note: (*) for without backrest

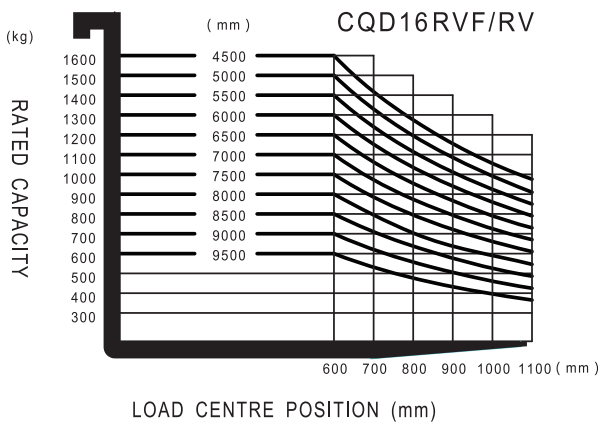
CQD16-20RV(F) 3-stage mast (8000mm≤h3≤9500mm):

Lift height	Lowered mast height	Free lift	Extended mast height
h3	h1	h2	h4
8000	3390	2325	2800
8500	3610	2545	3020
9000	3770	2705	3150
9500	3940	2875	3340

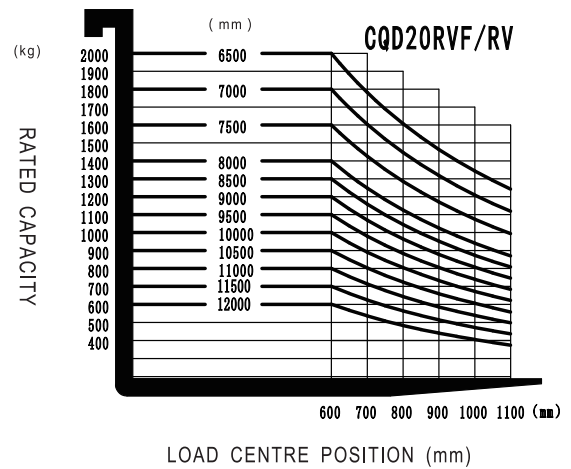
Note: (*) for without backrest



RATED CAPACITIES GRAPH



RATED CAPACITIES GRAPH





Option

Options	CQD16RVF	CQD16RV	CQD16RVH	CQD20RVF	CQD20RV
Driving pedal	—	—	—	—	—
Electronic Power steering	●	●	●	●	●
Battery capacity	●500Ah ○400/600/700/750Ah	●500Ah ○400/600/700/750Ah	●400Ah ○500/600/700/750Ah	●500Ah ○400/600/700/750Ah	●500Ah ○400/600/700/750Ah
Lithium Battery capacity	○360Ah	○360Ah	○360Ah	○360Ah	○360Ah
Lateral change battery	○	○	○	○	○
Cold storage	○	○	○	○	○
Side shift	●	●	●	●	●
Front light and warning light	●	●	●	●	●
Rearview mirror	●	●	●	●	●
Hummer	○	○	○	○	○
Height display	●	—	—	●	—
Camera	○	○	○	○	○
Fire extinguisher	○	○	○	○	○
The front wheel side guard	○	○	○	○	○
Drive-in Rack	○	○	○	○	○
Seat switch	●	●	●	●	●
Water auto-fillingsystem					

Note: ● standard ○ option — NA