



EP
Let's grow together

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

- Up to 11M 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
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	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	48/500 ^④
6.5	Battery weight		kg	925 ^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 .
- ③ 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				
with side shift									
Mast style	2-stage mast				3-stage mast				3-stage mast
Lift height h ₃	h3 < 7m				h3 ≤ 7.5m				h3 ≤ 7.5m
Battery capacity	8msh3≤9.5m				8msh3≤9.5m				8msh3≤9.5m
	s600Ah				10msh3≤11m				10msh3≤11m
Wheelbase	y	1454	1454	1524	1524	1524	1524	1524	1594
Overall length (minimum)	l1	2472	2498	2503	2472	2498	2503	2542	2568
Length to face of forks	l2	1402	1428	1433	1402	1428	1433	1472	1498
Reach distance	l4	520	495	555	585	560	625	515	490
Alisle width for pallets	Ast	2827	2847	2864	2842	2860	2884	2894	2913
1000×1200 crossways									
Alisle width for pallets	Ast	2891	2914	2921	2893	2917	2928	2932	2957
800×1200 lenhways									
Alisle width for pallets	Ast	2932	2958	2967	2941	2963	2977	2981	3002
1000×1200 lenhways									
Alisle width for pallets	Ast	2686	2703	2728	2709	2725	2757	2760	2752
800×1200 crossways									
Turning radius	Wa	1705		1770	1770	1840		1770	1840
Length across wheel arms (exclusive fork)	l7	1865		1935	1935	2005		1935	2005

②Service weight (include battery)

Mast height (mm)	Service weight (kg)		
	2-stage mast	CQD16RVH	CQD20RV(F)
3000		2760	2940
3300		2790	2970
3640		2820	3000
4000		2850	3030
4300		2880	3060
4520		2910	3090
5000		2940	3120
5480		2970	3150
6000		3000	3180
3-stage mast	CQD16RVH	CQD16RV(F)	CQD20RV(F)
4050	3060	3240	3245
4500	3110	3290	3295
5000	3160	3340	3345
5500	3210	3390	3395
6000	3260	3440	3445
6500	3310	3490	3495
7000		3540	3545
7500		3590	3595
8000		3640	3645
8500		3690	3695
9000		3740	3745
9500		3790	3795
10000		3840	3845
10500		3890	3895
11000		3940	3945

③Battery

type	CQD16			CQD20		
	Capacity(Ah)	3HPzS 400	4HPzS 500	5HPzS 600	5HPzS 700	5HPzS 750
Battery weight (kg)	745	925	935	1115	1140	

③Mast

CQD16GRVH 2-stage mast:					
Lift height	Lowered mast height	Free lift	Extended mast height		
h3	h1	h2	h4	h4(*)	
2700	1980	120	3765	3280	
3000	2130	120	4065	3580	
3300	2280	120	4365	3880	
3640	2450	120	4705	4220	
4000	2630	120	5065	4580	
4300	2780	120	5365	4880	
4520	2960	160	5585	5140	
5000	3200	160	6065	5620	
5480	3460	160	6545	6120	
6000	3720	160	7065	6640	
Note: (*) for without backrest					

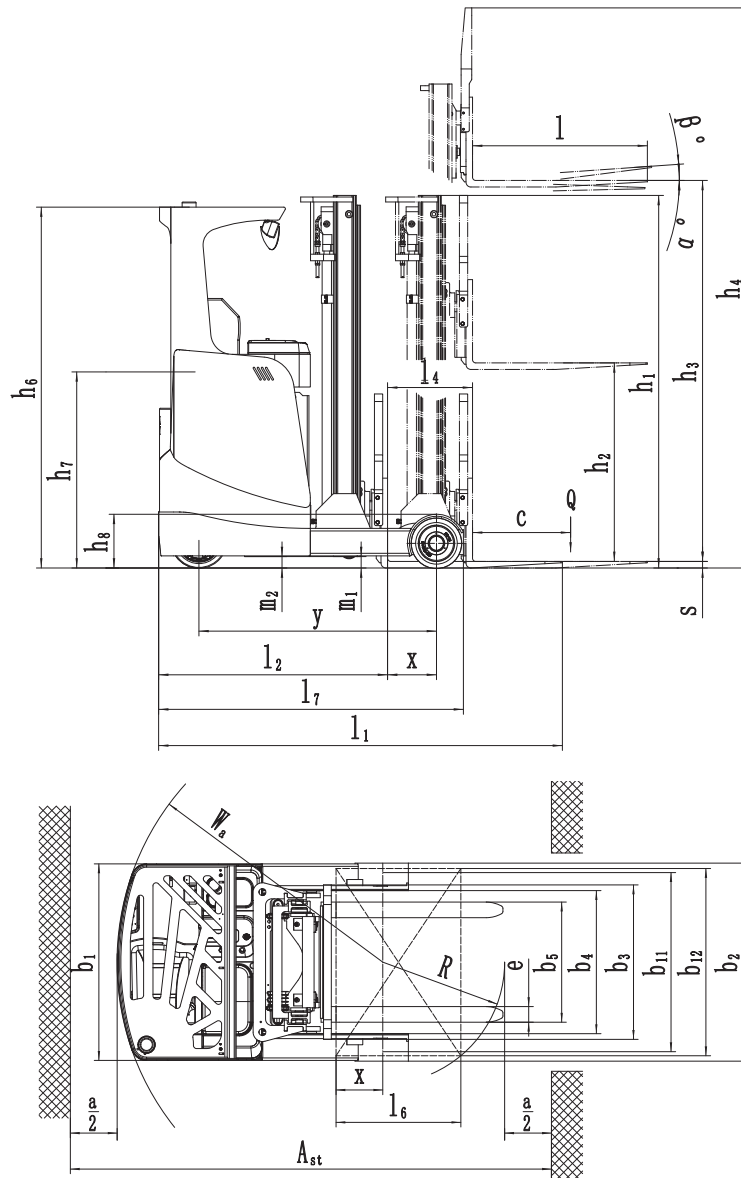
CQD16-20RV(F) 2-stage mast:					
Lift height	Lowered mast height	Free lift	Extended mast height		
h3	h1	h2	h4	h4(*)	
2700	1980	120	3765	3280	
3000	2130	120	4065	3580	
3300	2280	120	4365	3880	
3640	2450	120	4705	4220	
4000	2630	120	5065	4580	
4300	2780	120	5365	4880	
4520	2960	160	5585	5140	
5000	3200	160	6065	5620	
5480	3460	160	6545	6120	
6000	3720	160	7065	6640	
Note: (*) for without backrest					

CQD16RVH 3-stage mast (≤6500mm):					
Lift height	Lowered mast height	Free lift	Extended mast height		
h3	h1	h2	h2(*)	h4	h4(*)
4050	1980	915	1350	5115	4680
4500	2130	1065	1500	5565	5130
5000	2280	1215	1700	6065	5580
5500	2450	1385	1860	6565	6090
6000	2630	1565	2000	7065	6630
6500	2780	1715	2200	7565	7080
Note: (*) for without backrest					

CQD16-20RV(F) 3-stage mast (≤7500mm):					
Lift height	Lowered mast height	Free lift	Extended mast height		
h3	h1	h2	h2(*)	h4	h4(*)
4050	1980	915	1350	5115	4680
4500	2130	1065	1500	5565	5130
5000	2280	1215	1700	6065	5580
5500	2450	1385	1860	6565	6090
6000	2630	1565	2000	7065	6630
6500	2780	1715	2200	7565	7080
7000	3050	1985	2440	8065	7610
7500	3220	2155	2640	8565	8120
Note: (*) for without backrest					

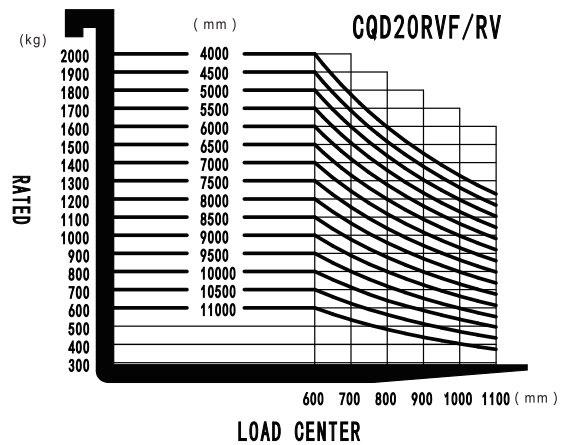
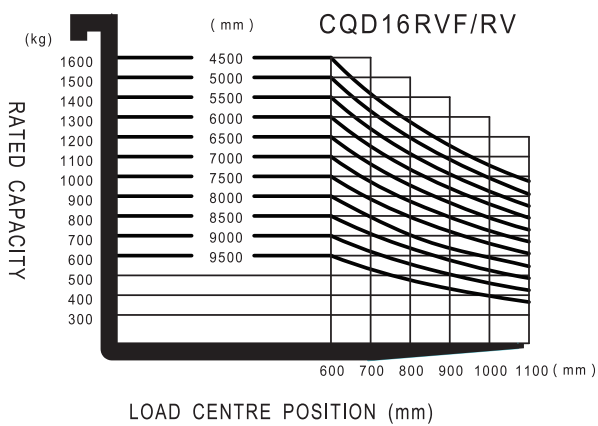
CQD20RV(F) 3-stage mast (≥10000mm):					
Lift height	Lowered mast height	Free lift	Extended mast height		
h3	h1	h2	h2(*)	h4	h4(*)
10000	4160	3095	3560	11065	10585
10500	4330	3265	3740	11565	11090
11000	4490	3425	3875	12065	11590
Note: (*) for without backrest					

CQD16-20RV(F) 3-stage mast (8000mm≤h3≤9500mm):					
Lift height	Lowered mast height	Free lift	Extended mast height		
h3	h1	h2	h2(*)	h4	h4(*)
8000	3390	2325	2800	9065	8590
8500	3610	2545	3020	9565	9090
9000	3770	2705	3150	10065	9590
9500	3940	2875	3340	10565	10090
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	●500Ah	●400Ah	●500Ah	●500Ah
	○400/600/700/750Ah	○400/600/700/750Ah	○500/600/700/750Ah	○400/600/700/750Ah	○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					