



**EP**  
Let's grow together

# Apilador Reach Modelo CQD16/20

- **Capacidad de Carga 1.600 y 2.000kg.**
- **Altura de trabajo:** hasta 12 metros
- **Modelo RV:** movimientos con palanca de control y todos los motores CA
- **Modelo RVF:** con control por Fingertips electromagnéticos que obtiene elevaciones de máxima precisión cuando la torre llega cerca de su altura máxima, incluye indicador de altura y todos los motores de CA (Schabmuller + KDS)
- **Baterías:** opción Standard ó ION Litio (Vida útil más larga, Carga de Oportunidad, Menor peso y tamaño de batería)

# Apilador Reach Modelo CQD16/20

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	1524
Weight					
2.1	Service weight <sup>1)</sup> include battery <sup>1)</sup>		kg	2940	2945
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 <sup>2)</sup> diameter×width <sup>2)</sup>		mm		Φ343×140
3.3	Tyre size, loading wheels <sup>2)</sup> diameter×width <sup>2)</sup>		mm		Φ310×118 <sup>Ⓐ</sup>
3.4	Tyre size, caster wheels <sup>2)</sup> diameter×width <sup>2)</sup>		mm		Φ102×51 <sup>Ⓑ</sup>
3.5	Wheels, number driving <sup>2)</sup> /caster/loading (x=drive wheels)				1x□ 2 <sup>Ⓑ</sup>
3.6	Track width, front, driving wheels	b10	mm		0
3.7	Track width, rear, loading wheels	b11	mm		1148 <sup>Ⓐ</sup>
Dimensions					
4.1	Tilt of mast/fork carriage forward/backward	α/ β	°		2/4
4.2	Height, mast lowered	h1	mm		2130
4.3	Free lift <sup>3)</sup> load backrest <sup>3)</sup>	h2	mm		120
4.4	Lift height	h3	mm		3000
4.5	Height, mast extended	h4	mm		4065
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 <sup>3)</sup> minimum <sup>3)</sup>	l1	mm		2470
4.20	Length to face of forks	l2	mm		1400
4.21	Overall width	b1/ b2	mm		1260/1270 <sup>Ⓐ</sup>
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
4.31	Ground clearance, laden, below mast	m1	mm		70
4.32	Ground clearance, center of wheelbase	m2	mm		20 <sup>Ⓐ</sup>
4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast	mm	2827	2842
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2891	2893
4.35	turning radius	Wa	mm	1705	1770
4.37	Length across wheel arms <sup>3)</sup> exclusive fork <sup>3)</sup>	l7	mm	1865	1935
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	48/400, 48/500
6.5	Battery weight		kg	925	745, 925
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 ;
- Ⓐ 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.
- Ⓑ in the CQD16 parameters, with two caster wheels and size for  $\Phi 102 \times 51mm$  When mast lifting height  $h_3 \geq 8m$  ;  
Ⓑ 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.

D. imensions(mm)

with side shift	CQD16				CQD20			
	2-stage mast	3-stage mast	2-stage mast	3-stage mast	2-stage mast	3-stage mast	2-stage mast	3-stage mast
Mast style	h3 □ 7m	h3 □ 7m	h3 □ 7m	h3 □ 7m				
Lift height h <sub>3</sub>	h3 □ 7m	h3 □ 7m	h3 □ 7m	h3 □ 7m				
Battery capacity	s600Ah				700Ah □ 750Ah			
Wheelbase	y	1454	1454	1524	1524	1524	1524	1594
Overall length (minimum)	l1	2472	2498	2503	2472	2498	2503	2573
Length to face of forks	l2	1402	1428	1433	1402	1428	1433	1503
Reach distance	l4	520	495	555	585	560	625	555
Aisle width for pallets	Ast	2827	2847	2864	2842	2860	2884	2934
1000x1200 crossways								
Aisle width for pallets	Ast	2891	2914	2921	2893	2917	2928	2991
800x1200 lenthways								
Aisle width for pallets	Ast	2932	2958	2967	2941	2963	2977	3037
1000x1200 lenthways								
Aisle width for pallets	Ast	2686	2703	2728	2709	2725	2757	2798
800x1200 crossways								
Turning radius	Wa	1705		1770	1840	1770	1840	1840
Length across wheel arms (exclusive fork)	l7	1865		1935	2005	1935	2005	2005

Service weight (include battery)

Mast height: mm □	Service weight: kg □			
	2-stage mast	CQD16RVH	CQD16RV(F)	CQD20RV(F)
3000	2760	2940	2945	2945
3300	2790	2970	2975	2975
3640	2820	3000	3005	3005
4000	2850	3030	3035	3035
4300	2880	3060	3065	3065
4520	2910	3090	3095	3095
5000	2940	3120	3125	3125
5480	2970	3150	3155	3155
6000	3000	3180	3185	3185
3-stage mast	CQD16RVH	CQD16RV(F)	CQD20RV(F)	
4050	3060	3240	3245	3245
4500	3110	3290	3295	3295
5000	3160	3340	3345	3345
5500	3210	3390	3395	3395
6000	3260	3440	3445	3445
6500	3310	3490	3495	3495
7000		3540	3545	3545
7500		3590	3595	3595
8000		3870	3875	3875
8500		3925	3930	3930
9000		3980	3985	3985
9500		4035	4040	4040
10000			4570	4570
10500			4630	4630
11000			4690	4690
12000			4810	4810

Battery

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

Mast

**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 (μ 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	6565
6000	2630	1565	7065
6500	2780	1715	7565

Note □□ \* ) for without backrest

**CQD16-20RV(F) 3-stage mast (μ 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	6565
6000	2630	1565	7065
6500	2780	1715	7565
7000	3050	1985	8065
7500	3220	2155	8565

Note □□ \* ) for without backrest

**CQD20RV(F) 3-stage mast (r 10000mm) □**

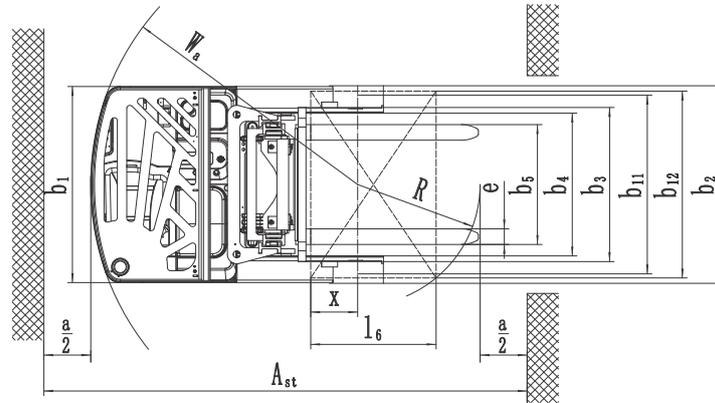
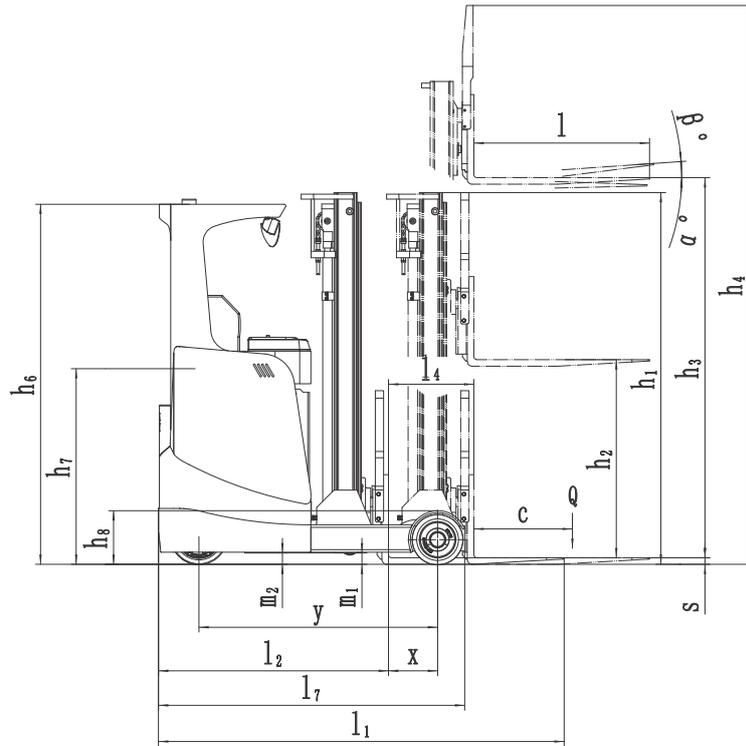
Lift height	Lowered mast height	Free lift	Extended mast height
h3	h1	h2	h4
10000	4160	3095	11065
10500	4330	3265	11565
11000	4490	3425	12065
11500	4660	3595	12565
12000	4820	3755	13065

Note □□ \* ) for without backrest

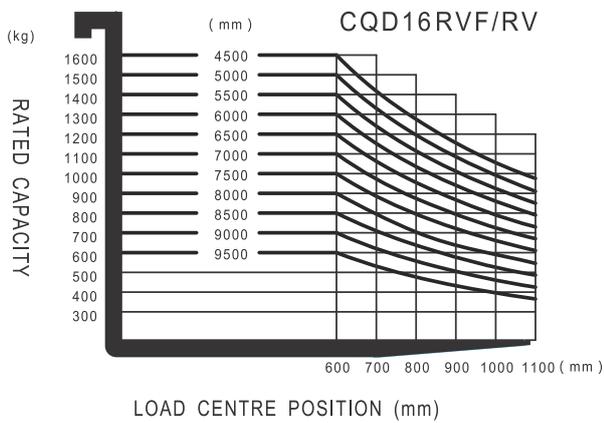
**CQD16-20RV(F) 3-stage mast (8000mm, h3, 9500mm) □**

Lift height	Lowered mast height	Free lift	Extended mast height
h3	h1	h2	h4
8000	3390	2325	9065
8500	3610	2545	9565
9000	3770	2705	10065
9500	3940	2875	10565

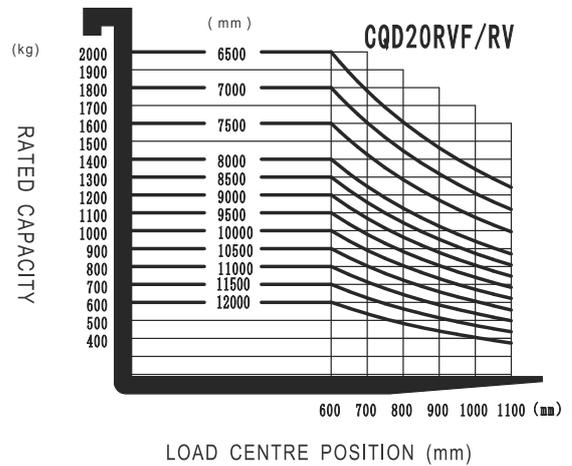
Note □□ \* ) for without backrest



RATED CAPACITIES GRAPH



RATED CAPACITIES GRAPH





## Opcionales:

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