



ZOOMLION

YB16NRVF/YB16NRV/YB16RVF YB16RV/YB20RVF/YB20RV 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

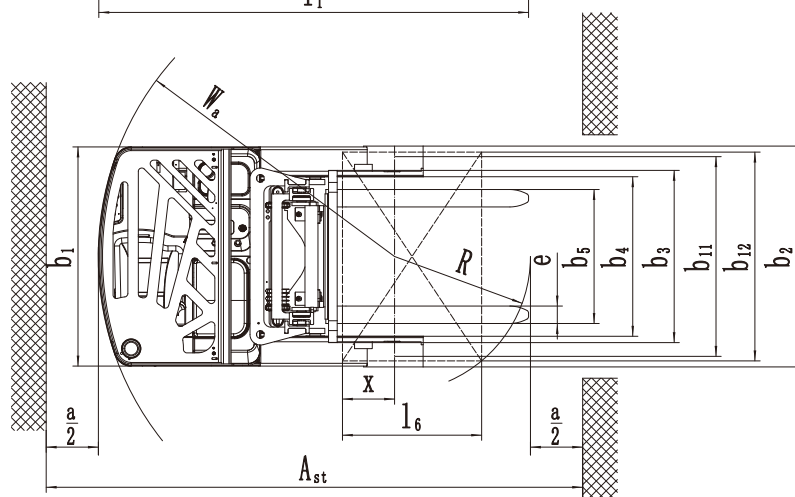
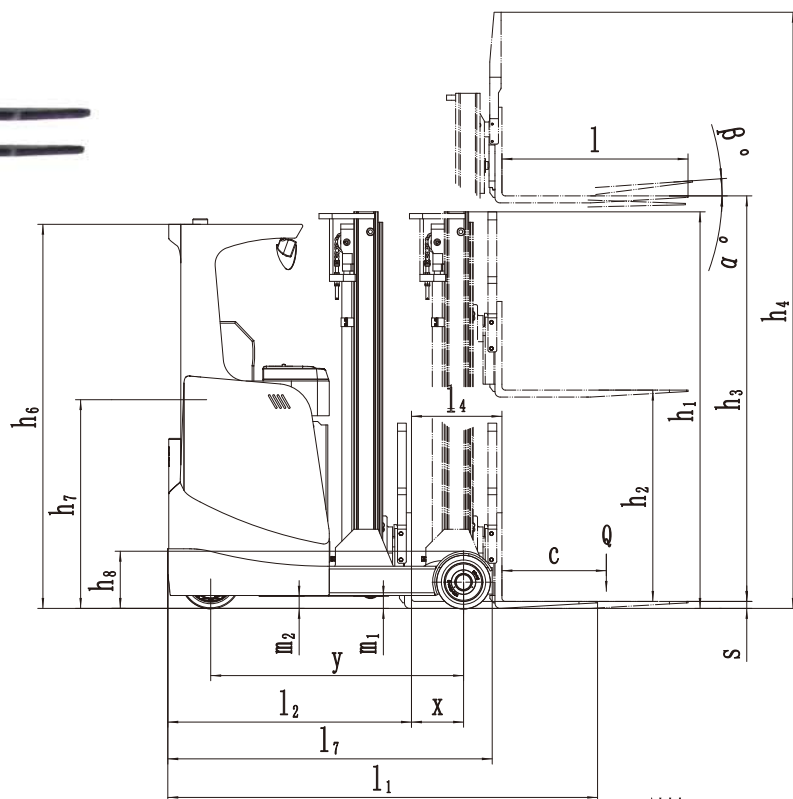
Electric Reach Truck

YB16NRVF/YB16NRV/YB16RVF

YB16RV/YB20RVF/YB20RV

Distinguishing mark						
1.1	Manufacturer		ZOOMLION			
1.2	Model designation		YB16NRVF	YB16NRV	YB16RVF	YB16RV YB20RVF YB20RV
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	1454 ①	1524 ①
Weight						
2.1	Service weight (include battery)		kg	3070 ②	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	343×140		
3.3	Tyre size, loading wheels (diameter×width)		mm	310×96	310×118 ①a	
3.4	Tyre size, caster wheels (diameter×width)		mm	/	/ ①b	
3.5	Wheels, number driving , caster/loading (x=drive wheels)			1x, 2	1x, 2 ①b	
3.6	Track width, front,driving wheels	b ₁₀	mm	0	0	
3.7	Track width,rear,loading wheels	b ₁₁	mm	1106	1148 ①a	
Dimensions						
4.1	Tilt of mast/fork carriage forward/backward		α/ β	°	2/4	
4.2	Height, mast lowered		h ₁	mm	2130 ③	
4.3	Free lift (load backrest)		h ₂	mm	120 ③	
4.4	Lift height		h ₃	mm	3000 ③	
4.5	Height, mast extended		h ₄	mm	4065 ③	
4.7	Height of overhead guard (cabin)		h ₆	mm	2210	
4.8	Seat height/standing height		h ₇	mm	1200	
4.10	Height of wheel arms		h _a (mm)	mm	330	
4.19	Overall length (minimum)		l ₁	mm	2502 ①	2470 ①
4.20	Length to face of forks		l ₂	mm	1432 ①	1400 ①
4.21	Overall width		b ₁ / b ₂	mm	1192/1202	1260/1270 ①a
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		b ₃	mm	990	
4.25	Distance between fork-arms		b ₅	mm	200/770	240/740
4.26	Distance between wheel arms/loading surfaces		b ₄	mm	899	915
4.28	Reach distance		l ₄	mm	475 ①	520 ①
4.31	Ground clearance, laden, below mast		m ₁	mm	70	
4.32	Ground clearance, center of wheelbase		m ₂	mm	70 ①a	
4.34.1	Aisle width for pallets 1000 × 1200 crossways		Ast	mm	2850 ①	2827 ① 2842 ①
4.34.2	Aisle width for pallets 800 × 1200 lengthways		Ast	mm	2918 ①	2891 ① 2893 ①
4.35	turning radius		Wa	mm	1705	1705 ① 1770 ①
4.37	Length across wheel arms (exclusive fork)		l ₇	mm	1865	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	0.34/0.45		0.28/0.42
5.3	Lowering speed, laden/ unladen		m/ s	0.31/0.33		0.3/0.33
5.4	Reaching speed, laden / unladen		m/ s	0.9/0.9		
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	11	13
6.3	The maximum allowed size battery		mm	1120×387×778	1220×355×778	1220×427×778
6.4	Battery voltage/nominal capacity K5		V/ Ah	48/500 ④		
6.5	Battery weight		kg	820 ④	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. ①、②、③、④、⑤、⑥ in the parameters is optional configuration , Please see the corresponding schedule ;
2. ④ in the YB20 parameters,When mast lifting height h₃≥10m , tyre size of loading wheels for Φ310×208mm , loading wheels track width for 1238mm, Overall width for 1260/1450mm , center of wheelbasem at ground clearance for 20mm .
3. ⑤ in the YB16 parameters , with two caster wheels and size for Φ102×51mm When mast lifting height h₃≥8m ;
⑥ in the YB20 parameters , with two caster wheels and size for Φ102×51mm When mast lifting height h₃<10m .



① Dimensions (mm)

with side shift Mast style	YB16N			YB16			YB20		
	2-stage mast h ₃ < 7m	3-stage mast h ₃ ≤ 7.5m	2-stage mast h ₃ < 7m	3-stage mast h ₃ ≤ 7.5m	2-stage mast h ₃ < 7m	3-stage mast h ₃ ≤ 7.5m	3-stage mast 10msh ₃ ≤ 11m	2-stage mast h ₃ < 7m	3-stage mast h ₃ ≤ 7.5m
Battery capacity	≤600Ah			8msh ₃ ≤ 9.5m			700Ah 750Ah		
Wheelbase	Y	1454	1454	1454	1454	1524	1524	1524	1524
Overall length (minimum)	I ₁	2502	2528	2472	2498	2503	2503	2542	2568
Length to face of forks	I ₂	1432	1458	1402	1428	1433	1433	1472	1498
Reach distance	I ₄	475	450	520	495	555	625	515	490
Aisle width for pallets 1000 × 1200 crossways	Ast	2850	2870	2827	2847	2864	2884	2894	2913
Aisle width for pallets 800 × 1200 lengthways	Ast	2918	2941	2891	2914	2921	2932	2957	2980
Aisle width for pallets 1000 × 1200 lengthways	Ast	2961	2984	2932	2958	2967	2977	3002	3024
Aisle width for pallets 800 × 1200 crossways	Ast	2705	2723	2686	2703	2728	2757	2752	2769
Turning radius	W _a	1705			1770			1770	1840
Length across wheel arms (exclusive fork)	I ₇	1865			1935			1935	2005

② Service weight (include battery)

Mast height (mm)	Service weight (kg)	CQD16N		CQD16		CQD20	
		2-stage mast		2-stage mast		3-stage mast	
3000	2940	3070	2940	3070	2940	3270	3240
3300	2970	3100	2970	3100	2970	3320	3290
3640	3000	3130	3000	3130	3000	3370	3340
4000	3030	3160	3030	3160	3030	3420	3390
4300	3060	3190	3060	3190	3060	3470	3440
4520	3090	3220	3090	3220	3090	3520	3490
5000	3120	3250	3120	3250	3120	-	3540
5480	3150	3280	3150	3280	3150	-	3590
6000	3180	3310	3180	3310	3180	-	3870
4050	3240	3-stage mast		3-stage mast		-	3925
4500	3290	3-stage mast		3-stage mast		-	3980
5000	3340	3-stage mast		3-stage mast		-	4035
5500	3390	3-stage mast		3-stage mast		-	-
6000	3440	3-stage mast		3-stage mast		-	-
6500	3490	3-stage mast		3-stage mast		-	-
7000	3540	3-stage mast		3-stage mast		-	-
7500	3590	3-stage mast		3-stage mast		-	-
8000	3640	3-stage mast		3-stage mast		-	-
8500	3690	3-stage mast		3-stage mast		-	-
9000	3740	3-stage mast		3-stage mast		-	-
9500	3790	3-stage mast		3-stage mast		-	-
10000	3840	3-stage mast		3-stage mast		-	-
10500	3890	3-stage mast		3-stage mast		-	-
11000	3940	3-stage mast		3-stage mast		-	-

1. The parameters in the table are of the standard model.
For more information please contact us.
2. The parameters are subject to change without notice.

YB16-20 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			

YB16-20 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	6565
6000	2630	1565	7065
6500	2780	1715	7565
7000	3050	1985	8065
7500	3220	2155	8565
note: (*) for without backrest			

YB16-20 3-stage mast (8000mmsh₃ ≤ 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			

③ Mast

YB20 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			

YB16N 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	6565
6000	2630	1565	7065
6500	2780	1715	7565
note: (*) for without backrest			

YB20 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
note: (*) for without backrest			

④ Battery

	YB16N			YB16			YB20			
Capacity (Ah)	3HPzS 400	4HPzS 500	4HPzS 600	3HPzS 400	4HPzS 500	4HPzS 600	4HPzS 500	4HPzS 600	5HPzS 700	5HPzS 750
Battery weight (kg)	745	820	900	745	925	935	925	935	1115	1140

options	YB16RVF ○ 400/600/700/750Ah	YB16NRVF ○ 400/600Ah	YB16RV ○ 400/600/700/750Ah	YB16NRV ○ 400/600Ah	YB20RVF ○ 400/600/700/750Ah	YB20RV ○ 400/600/700/750Ah
High capacity battery	●	●	●	●	●	●
lateral battery change						
Cold storage (Apply to -20℃)	●	●	●	●	●	●
Beeper	●	●	●	●	●	●
Height indicator	○	○	●	●	○	●
Camera	●	●	●	●	●	●
Fire extinguisher	●	●	●	●	●	●
Front wheel side guard plate	●	●	●	●	●	●
Special modification for Drive-in Racking	●	●	●	●	●	●
OPS system	●	●	●	●	●	●
Water auto-filling system	●	●	●	●	●	●

- options
- Standard

1. The parameters in the table are the standard model, for more information please contact us.

2. The parameters are subject to change without notice.

RATED CAPACITIES GRAPH

