

ZOOMLION



YB ELECTRIC REACH TRUCK 16R1/16S2/20S1/20S2/20SA2

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ZOOMLION

■ Reach Truck, Standing Operation

YB16-R1

Safe & Efficient

- Speed limit function when fork rising to high position can avoid forklift dumping.
- Suspension system and imported drive unit with floating design make the driving comfortable and safe.
- Fork falling buffer system can reduce impact noise and make the goods safe.
- The high capacity storage battery is superior than same models in forklift industry, which ensure the working hours during once charging."
- Automatic speed limit function when turing can avoid the forklift dumping and goods thrown out caused by high speed.

Flexible control

- Suspension system and imported drive unit with floating design make the driving comfortable and safe.
- Steering wheels return to middle automatically when the machine be started, which is safe and convenient.
- Battery removing device is in button type, which makes the battery replacement easy
- The integrated EPS steering system makes the control precise, easy and convenient, which can reduce the driving fatigue efficiently.
- The steering angle and position can be displayed in real time. 180 ° steering angle is convenient for the smooth and fast steering in a narrow channel.



■ 2-STAGE STANDARD MAST

Lift	Lowered	Mast Extended	Free lift	Tilt of fork carriage forward/backward
h3(mm)	h1(mm)	h4(mm)	h2(mm)	$\alpha / \beta (^{\circ})$
3000☆	2035	3930	100	2/4
3300	2185	4230	100	2/4
3500	2285	4430	100	2/4
3700	2385	4630	100	2/4
4000	2585	4930	100	2/4
4500	2835	5430	100	2/4
5000	3085	5930	100	2/4

■ 3-STAGE FULL FREE MAST

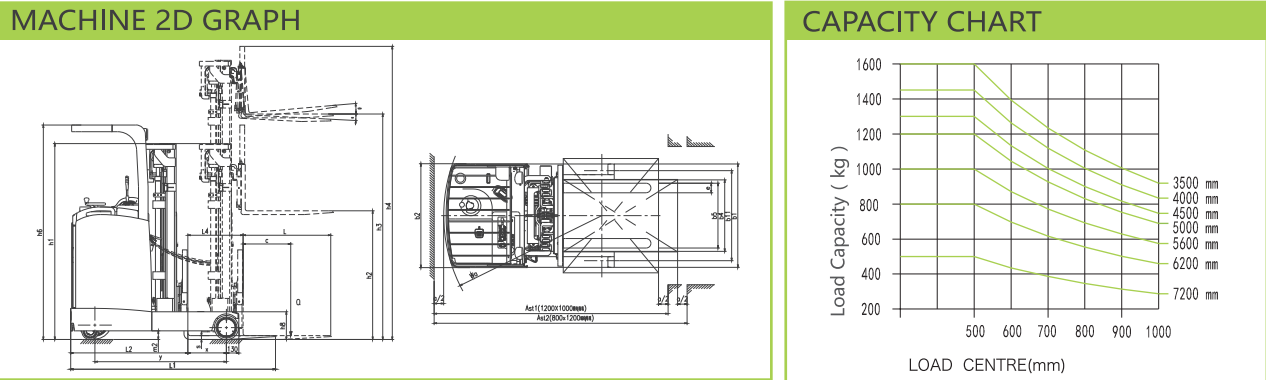
Lift	Lowered	Mast Extended	Free lift	Tilt of fork carriage forward/backward
h3(mm)	h1(mm)	h4(mm)	h2(mm)	$\alpha / \beta (^{\circ})$
4250	1970	5160	1070	2/4
4500☆	2055	5410	1155	2/4
5000	2220	5910	1320	2/4
5300	2320	6210	1420	2/4
5600	2420	6510	1520	1/3
5900	2570	6810	1670	1/3
6200	2670	7110	1770	1/3
6500	2770	7410	1870	0.5/2
6800	2920	7710	2020	0.5/2
7200	3055	8110	2155	0.5/2

Note: the table with some dimensions of standard type.

■ Machine parameters

IDENTIFICATION		YB16-R1
Drive	-	Electric (battery)
Operator type	-	Standing
Load capacity/rated load	Q(kg)	1600
Load centre distance	c(mm)	500
Load distance, centre of drive axle to fork	x(mm)	405
WEIGHTS		
Service weight	kg	2522
WHEELS/CHASSIS		
Tyres	-	Polyurethane
Tyre size, drive, front	mm	φ343*140
Tyre size, rear	mm	φ254*100
Wheels, number front/rear (×=driven wheels)	-	1x/2+2
BASIC DIMENSIONS		
Height of overhead guard	h6(mm)	2250
Overall length	L1 (mm)	2149
Overall width	b1/b2(mm)	1090
Fork dimensions	s/e/l(mm)	40/100/920
Distance between fork-arms min./max.	b5 (mm)	200/680
Reach distance	L4 (mm)	580
Ground clearance, centre of wheelbase	m2(mm)	90
Aisle width for pallets 1000mm x 1200mm crossways	Ast1 (mm)	2454
Aisle width for pallets 800mm x 1200mm lengthwise	Ast2(mm)	2654
Turning radius	Wa(mm)	1668
PERFORMANCE DATA		
Travel speed, laden/unladen	km/h	9.5/10
Lift speed, laden/unladen	mm/s	260/360
Lowering speed, laden/unladen	mm/s	370
Reaching speed, laden/unladen	mm/s	100
Gradeability, laden/unladen	%	8/15
Drive motor S2 60 minute rating	kw	6.4
Lift motor, S3 15% rating	kw	8.2
Battery voltage/nominal capacity K5	V/Ah	48/360(standrd)
OTHERS		
Type of drive unit	-	Mosfet / AC
working pressure for attachments	bar	165
Steering angle	°	180

The company reserves the right to modify the provision of parameters, such as a change without notice.



The company reserves the right to modify the provision of parameters, such as a change without notice.

Reach Truck, Sitting Operation

YB20-S1/SA2

Safe & Efficient

- Speed limit function when fork rising to high position can avoid forklift dumping.
- Fork falling buffer system can reduce impact noise and make the goods safe.
- The high capacity storage battery is superior than same models in forklift industry, which ensure the working hours during once charging.
- Automatic speed limit function when turing can avoid the forklift dumping and goods thrown out caused by high speed.

Flexible control

- Steering wheels return to middle automatically when the machine be started, which is convenient.
 - Full alternating current motor without the carbon brush, free maintenance, low use cost. Battery removing device is in pedal type and the driver no need to get off for operation, which make the battery replacement easy.
 - The steering angle and position can be displayed in real time. 180 ° steering angle is convenient for the smooth and fast steering in a narrow channel.
 - The integrated EPS steering system makes the control precise, easy and convenient, which can reduce the driving fatigue efficiently.
- Specially designed wide view mast is without pipes blocking on its left or right side, which can offer a best view to the driver.



2-STAGE STANDARD MAST

Lift	Lowered	Mast Extended	Free lift	Tilt of fork carriage forward/backward
h3(mm)	h1(mm)	h4(mm)	h2(mm)	$\alpha / \beta (^{\circ})$
3000☆	2075	3930	120	2/4
3300	2225	4230	120	2/4
3500	2325	4430	120	2/4
3700	2425	4630	120	2/4
4000	2625	4930	120	2/4
4500	2875	5430	120	2/4
5000	3125	5930	120	2/4

3-STAGE FULL FREE MAST

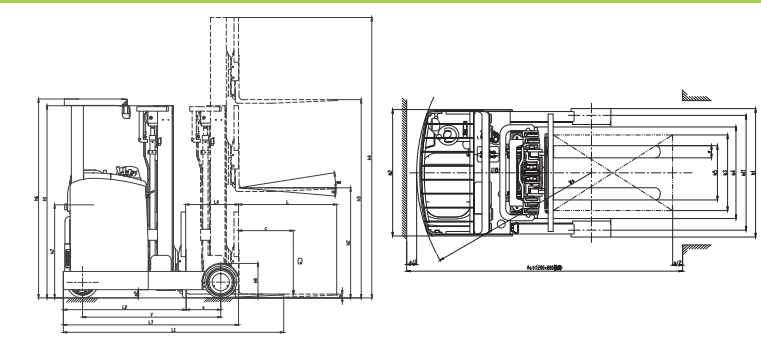
Lift	Lowered	Mast Extended	Free lift	Tilt of fork carriage forward/backward
h3(mm)	h1(mm)	h4(mm)	h2(mm)	$\alpha / \beta (^{\circ})$
4250	2025	5180	1125	2/4
4500☆	2105	5430	1205	2/4
5000	2270	5930	1370	2/4
5300	2370	6230	1470	2/4
5600	2470	6530	1570	1/3
5900	2620	6830	1720	1/3
6200	2720	7130	1820	1/3
6500	2820	7430	1920	0.5/2
6800	2970	7730	2070	0.5/2
7200	3105	8130	2205	0.5/2
7800	3355	8730	2455	0.5/2
8000△	3390	9065	2325	2/4
8500△	3610	9565	2545	2/4
9000△	3770	10065	2705	2/4
9500△	3940	10565	2875	2/4

Note: The table with some dimensions of standard type;
The table with height only with YB20-SA2 models from the delta;
The rest up to the YB20-S1 model.

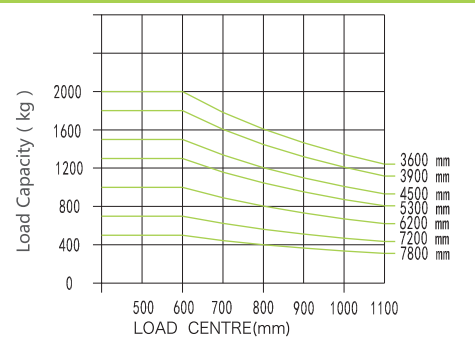
Machine parameters

IDENTIFICATION		YB20-S1	YB20-SA2
Drive: electric	-	Electric(storage battery)	Electric(storage battery)
Operator type	-	Seated	Seated
Load capacity/rated load	Q(kg)	2000	2000
Load centre distance	c(mm)	600	600
Load distance, centre of drive axle to fork	x(mm)	380	/
WEIGHTS		kg	
Service weight	-	3340	3875
WHEELS/CHASSIS			
Tyres	-	Polyurethane	Polyurethane
Tyre size, drive, front	mm	φ343×140	φ343×140
Tyre size, rear	mm	φ350×108	φ310×118
Wheels, number front/rear (×=driven wheels)	-	1×/2	1×/2
BASIC DIMENSIONS			
Height of overhead guard	h6(mm)	2180	2210
Overall length	L1 (mm)	2565	2573
Overall width	b1/b2(mm)	1270/1290	1260/1270
Fork dimensions	s/e/l(mm)	40*122*1220	10/120/1070
Distance between fork-arms min./max.	b5(mm)	244/750	240/740
Reach distance	L4 (mm)	600	555
Ground clearance, centre of wheelbase	m2 (mm)	90	70
Aisle width for pallets 1000mm x 1200mm crossways	Ast1 (mm)	2775	2934
Aisle width for pallets 800mm x 1200mm lengthwise	Ast2 (mm)	2830	3037
Turning radius	Wa (mm)	1725	1840
PERFORMANCE DATA			
Travel speed, laden/unladen	km/h	9.5/10.5	9/9.5
Lift speed, laden/unladen	mm/s	260/360	280/420
Lowering speed, laden/unladen	mm/s	500/400	300/330
Reaching speed, laden/unladen	mm/s	100/100	90/90
Gradeability, laden/unladen	%	10/15	10/15
Drive motor S2 60 minute rating	kw	6.4	6.4
Lift motor, S3 15% rating	kw	11.5	13
Battery voltage/nominal capacity K5	V/Ah	48/500	48/600
OTHERS			
Type of drive unit	-	Mosfet / AC	Mosfet / AC
working pressure for attachments	bar	165	/
Steering angle	°	180	180

MACHINE 2D GRAPH



CAPACITY CHART



The company reserves the right to modify the provision of parameters, such as a change without notice.

■ Reach Truck, Sitting Operation

YB16-S2/YB20-S2

Safe & Efficient

- Speed limit function when fork rising to high position can avoid forklift dumping.
- Fork falling buffer system can reduce impact noise and make the goods safe.
- Automatic speed limit function when turning can avoid the forklift dumping and goods throw out caused by high speed.
- Import Mast channel steel and special designed mast structure, make sure of the safety of high lifting.

Flexible control

- Two to adjustable steering wheel and unique steering damping design make the operation more comfortable.
- Full alternating current motor without the carbon brush, free maintenance, lose use cost.
- Steering wheels return to middle automatically when the machine be started, which is convenient.
- The steering angle and position can be displayed in real time. 180 ° steering angle is convenient for the smooth and fast steering in a narrow channel.
- The integrated EPS steering system makes the control precise, easy and convenient, which can reduce the driving fatigue efficiently.
- Battery removing device is in pedal type and the driver no need to get off for operation, which make the battery replacement easy.
- Specially designed wide view mast is without pipes blocking on both sides, which can provide the best view to driver.

Optional:

- Electric proportional valve and fingertip control valve.
- Wireless fork image system.

■ 3-STAGE FULL FREE MAST

Lift	Lowered	Mast Extended	Free lift	Tilt of fork carriage forward/backward
h3(mm)	h1(mm)	h4(mm)	h2(mm)	$\alpha / \beta (^{\circ})$
4500☆	2190	5510	1285	2/4
5000	2355	6010	1450	2/4
5300	2455	6310	1550	2/4
5600	2555	6610	1650	1/3
5900	2655	6910	1750	1/3
6000	2690	7010	1785	1/3
6200	2755	7210	1850	1/3
6500	2855	7510	1950	0.5/2
6800	2955	7810	2050	0.5/2
7000	3105	8010	2200	0.5/2
7200	3170	8210	2265	0.5/2
7500	3270	8510	2365	0.5/2
8000	3435	9010	2530	0.5/2
8500	3610	9510	2705	0.5/2
9000	3775	10010	2870	0.5/2
9500	3940	10510	3035	0.5/2

■ BATTERY PARAMETERS

Capacity	Front overhangmm	Reach distance	Battery Weight	Aisle Width For Pallets(YB16-S2)	
Ah	355	mm	kg	1000x1200 crossways (mm)	800x1200 lengthwise (mm)
360☆	355	530	633	2594	2793
400	355	530	722	2594	2793
500	355	530	786	2594	2793
500J	355	530	834	2594	2793
550	275	530	808	2594	2793
600	275	450	990	2674	2873
620J	275	450	1048	2674	2873
700J	275	450	1187	2674	2873
750	275	450	1062	2674	2873
775J		450	1237	2674	2873

Remark: "☆" means the size is standard,
"J" means HOPPECKE battery made in Germany.

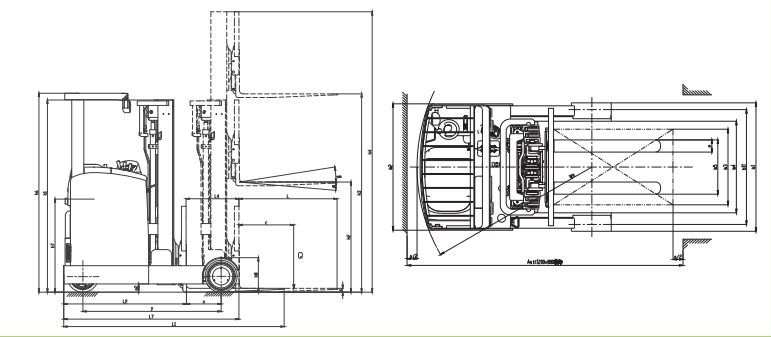
Due to the page limit,please consult more about the specification of YB20-S2 with sales or prodcut engineer.



■ 整机参数

IDENTIFICATION		YB16-S2	YB20-S2
Drive: electric	-	Electric (battery)	Electric (battery)
Operator type	-	Seated	Seated
Load capacity/rated load	Q(kg)	1600	2000
Load centre distance	c(mm)	600	600
Load distance, centre of drive axle to fork	x(mm)	355	378
WEIGHTS		kg	
Service weight	-	3005	3332
WHEELS/CHASSIS			
Tyres	mm	Polyurethane	Polyurethane
Tyre size, drive, front	mm	φ310×120	φ343×140
Tyre size, rear		φ285×108	φ350×108
Wheels, number front/rear (X=driven wheels)	-	1x/2	1x/2
BASIC DIMENSIONS			
Height of overhead guard	h6(mm)	2180	2180
Overall length	L1 (mm)	2435	2642
Overall width	b1/b2(mm)	1270/1294	1270/1294
Fork dimensions	s/e/l(mm)	35/100/1070	40/122/1220
Distance between fork-arms min./max.	b5(mm)	244/750	244/750
Reach distance	L4 (mm)	530	585
Ground clearance, centre of wheelbase	m2(mm)	90	90
Aisle width for pallets 1000 x 1200mm crossways	Ast1 (mm)	2594	2668
Aisle width for pallets 800m x 1200mm lengthwise	Ast2 (mm)	2793	2867
Turning radius	Wa (mm)	1751	1825
PERFORMANCE DATA			
Travel speed, laden/unladen	km/h	9/9.5	9/9.5
Lift speed, laden/unladen	mm/s	260/360	260/360
Lowering speed, laden/unladen	mm/s	500/400	500/400
Reaching speed, laden/unladen	mm/s	100	100
Gradeability, laden/unladen	%	10/15	10/15
Drive motor S2 60 minute rating	kw	5/6.4/6.8	6.4/6.8
Lift motor, S3 15% rating	kw	8.2	11
Battery voltage/nominal capacity K5	V/Ah	48/ 360/400/500/550 600/620/700/750/775	48/ 500/550600/ 620/700/750/775
OTHERS			
Type of drive unit	-	Mosfet / AC	Mosfet / AC
working pressure for attachments	bar	165	165
Steering angle	°	180	180

MACHINE 2D GRAPH



CAPACITY CHART(YB16-S2)

