

# PS20/30/40CB Counterbalanced Stacker

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## **electric counterweight stacker**



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# PS20/30/40CB New electric counterweight stacker

The rated load capacity of PSxxCB series electric counterbalanced stacker is from 2000lbs to 3300lbs, and the maximum lifting height is 177 in.

The dominant feature of this series of stacker is the compact structure, which provides you with an excellent operating experience while ensuring a high efficiency with low cost.

## Advantage

- Compact design: small wheelbase and small turning radius; requirements for small aisle, practical and applicable.
- Fast driving speed, full load 4.3mph, no load 5mph, high efficiency. Similar products are generally below 3.7mph.
- It adopts the overall mast forward and backward structure, which is high in stability and safer.
- The side battery extraction structure is adopted, and the battery replacement efficiency is fast and convenient.
- The hydraulic system with full proportional lifting helps you obtain precise positioning during lifting and lowering.



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(most of other manufacturers use the structure of the fork forward and backward)

## Core components



Powerful AC drive: AC drive motor designed and manufactured by Schabmueller, KORDEL gearbox, vehicle speed up to 5mph. In addition, Rader Vogel or Wicke drive wheels imported from Germany extends the service life of the PU.



The standard electric power steering system used in Noblift stackers can quickly and accurately control the position of the steering wheel, while meeting the standards, with high reliability and safety.



The Italian Zapi drive controller and steering controller are used to provide customers with reliable and flexible high-performance control system solutions.



German REMA handle with reliable and ergonomic control system. In addition, the non-contact lifting and lowering rocker switch extends the life of the handle.



The multi-function instrument can display the vehicle working status, battery power, working time, driving speed and steering angle. The outer ring aperture of the instrument will change from green to red, and the fault code will be displayed when maintenance is required. USB charging port provides power for more devices.



Standard side battery extraction, through a special trailer, battery replacement efficiency is high, the operator can operate the vehicle multiple shifts.



The integrated foldable ride-on platform and protective arm, as well as the new internal structure of the body, make the overall length of the stacker truck as short as possible, and achieve a smaller turning radius. In addition, the floating structure of the ride-on platform makes the operation more comfortable.



The thickness of the enclosure is 0.31 in to ensure the strength of the chassis, and there will be no change even if it is hit. The use of an iron cover for the battery cover also plays a protective role.

## OPTIONS AND FLEXIBILITIES



Standard Pin Panel Access, you can manually enter the password, also supports RFID card swiping to start. This function greatly simplifies the process of authorized operation, especially when multiple personnel can operate the vehicle.



French HPI hydraulic system for proportional lift helps to ensure accurate positioning of the fork during lifting and lowering. The acceleration and deceleration of the fork are smoother, and fragile items can be operated.



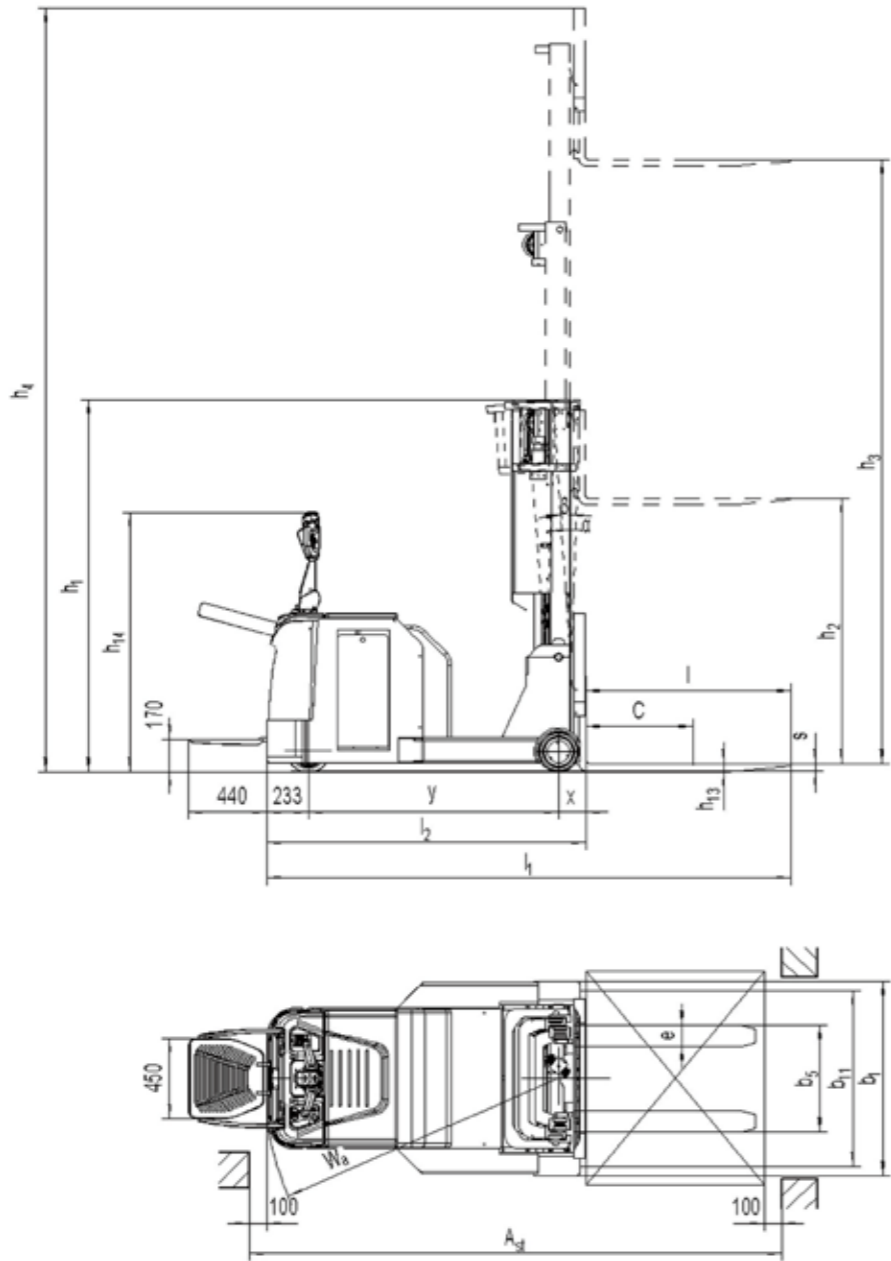
Lithium battery can be selected. Lithium battery has fast charging, maintenance-free, environmental protection and intelligent display functions. At the same time, the cost is very low from the perspective of long-term ownership and maintenance.



The vehicle can be equipped with an automatic filling system to quickly refill the lead-acid battery.



# PSCB



PSxxCB					
Characteristics	Lowered mast height h <sub>1</sub> (in)	Free lift height h <sub>2</sub> (in)	Lift height h <sub>3</sub> (in)	Extended mast height h <sub>4</sub> (in)	Total lifting height h <sub>3</sub> +h <sub>13</sub> (in)
Single mast	86	-	63	96	65
Double masts	73	-	98	132	101
	83	-	118	152	120
	87	-	126	159	128
	94	-	142	175	144
	102	-	157	191	160
Three masts Full freedom	71	47	142	175	144
	76	52	157	191	160
	80	56	169	203	172
	83	59	177	211	180

characteristics					
1.2	Model			PSCB	
	Manufacturer's type designation		PS20CB	PS30CB	PS40CB
1.3	Power (electric, diesel, gasoline, LPG, electrical)			Battery	
1.4	Driving method (manual, pedestrian, standing, driving, picking)			pedestrian	
1.5	Load Capacity	Q (lbs)	2000	3000	4000
1.6	Load Center Distance	c (in)		23.6	
1.8	Front overhang	x (in)		6	
1.9	Wheelbase	y (in)	53	57	67
Weight					
2.1	Dead weight (including battery)	lbs	4763	4976	5450
2.2	Axle load at full load, drive side/load side	lbs	1067/5676	902/6934	1267/7423
2.3	Axle load at no load, drive side/load side	lbs	2167/2596	2380/2596	2724/2666
Wheel					
3.1	Tires			Polyurethane (PU)	
3.2	Wheel size, drive side	Ø <sub>xw</sub> (in)		Ø 10×3	
3.3	Wheel size, load bearing side	Ø <sub>xw</sub> (in)		Ø 9×4	
3.5	Number of wheels (x = drive wheels) drive side / load-bearing side			1x / 2	
3.6	Wheelbase (front), drive side	b <sub>10</sub> (in)		/	
3.7	Wheelbase (rear), drive side	b <sub>11</sub> (in)		39	
Dimensions					
4.1	Mast/fork frame tilt angle, forward/backward tilt	α / β( ° )		1.5 / 3.5	
4.2	Lowered mast height	h <sub>1</sub> (in)		83	
4.3	Free lift height	h <sub>2</sub> (in)		59	
4.4	Lift height	h <sub>3</sub> (in)		177	
4.5	Extended mast height	h <sub>4</sub> (in)		212	
4.9	Height of tiller in drive position min./max.	h <sub>14</sub> (in)		38/54	
4.15	Lowered height	h <sub>13</sub> (in)		2.4	
4.19	Overall length	l <sub>1</sub> (in)	106	110	120
4.20	Length to face of forks	l <sub>2</sub> (in)	69	72	78
4.21	Overall width	b <sub>1</sub> (in)		43	
4.22	Fork dimensions	s/e/l (in)	1.4/4/37.4		1.6/5/42
4.25	Distance between fork-arms	b <sub>3</sub> (in)		8.6-30	
4.32	Ground clearance,center of wheelbase	m <sub>2</sub> (in)		2	
4.33	Aisle width for pallets 1000*1200(crossways)	Ast (in)	122.4	126.4	132
4.34	Aisle width for pallets 800*1200(lengthways)	Ast (in)	127	131	137
4.35	Turning radius	Wa (in)	63	67	73
Performance data					
5.1	Travel speed,laden/unladen		4.3/5		3.7/4.3
5.2	Lift speed,laden/unladen	fpm	27.6/39.4	23.6/39.4	19.7/39.4
5.3	Lowering speed,laden/unladen	fpm	49.2/39.4	59/39.4	63/39.4
5.8	Max.gradeability,laden/unladen	%		6/15	
5.10	Service brake			Electromagnetic	
Electric-engine					
6.1	Drive motor rating S2 60min	HP		3.5	
6.2	Lift motor rating at S3 10%	HP		4.3	
6.3	Battery acc.to Din 43531/35/36 A,B,C no			DIN	
6.4	Battery voltage,nominal capacity K5	V / Ah	24 / 270		24 / 350
6.5	Battery weight +/-5%	lbs	627	627	693
6.6	Energy consumption acc:to VDI cycle	kWh/h	1.80	1.88	1.90
Additional data					
8.1	Type of drive control			AC- speed control	
8.4	Sound level at driver's ear	dB(A)		68	