

PS20/30/40CB Walkie Counterbalance Stacker



24-Volt Counterbalance Stacker



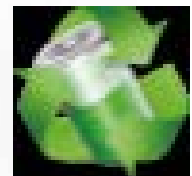
Noblelift Products

PS20/30/40CB Electric Counterbalanced Stacker

The rated load capacity of PSxxCB series electric counterbalanced stacker is from 2000lbs to 4000lbs, with maximum lifting height is 177 in. Compact design and power steering are the main features. Walkie counterbalanced chassis allows for application flexibility when moving wide loads. Power steering feature safe productive operation in wide variety of industrial applications.

Advantage

- **Compact design:** small wheelbase and power steering allow for small turning radius; practical and applicable.
- **Power Steering** ease of use and operator safety.
- **Platform Down Driving Speed:** full load 4.3 mph, w/o load 5 mph, high efficiency. Walkie speed with platform raised 3.4 MPH in walkie mode.
- **Mast Tilt:** Forward and backward mast tilt allow for ease of use while picking loads.
- **Side Battery Extraction** safe and fast battery replacement.
- **Optional Lithium Battery** longer run times, longer life, opportunity charging.



- **Proportional Hydraulics:** precise load positioning during lifting and lowering.



PS20/30/40CB

Core Components



Powerful AC drive designed and manufactured by Schabmuller, KORDEL gearbox, vehicle rated speed up to 5mph. Rader Vogel or Wicke drive wheels imported from Germany ensure the service life of the PU.



Standard electric power steering system allow operators to quickly and accurately place loads safely and efficiently. while meeting the standards, with high reliability and safety.



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.



CURTIS multi-function instrument displays vehicle working status, battery discharge indicator (BDI), working time, driving speed and steering angle.



Integrated foldable ride-on platform with protective arms, power steering, internal chassis design allows short overall length, and tightest turning radius in industry.



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



Standard side battery extraction, with battery rollers. Battery replacement efficient and safe for multiple shift operations and ease of maintenance.

Optional: Lithium iron battery



Powerful 24-Volt Zapi step-less drive and power steering controller. Provide customers with high quality flexible performance needed for today's manufacturing and warehouse applications



List of types of industrial vehicles according to VDI 2198

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)		24	
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	5390
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 _{xw} (in)		Ø 10×3	
3.3	Wheel size, load bearing side	Ø _{xw} (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 ₁₀ (in)		/	
3.7	Wheelbase (rear), drive side	b ₁₁ (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 ₁ (in)		83	
4.3	Free lift height	h ₂ (in)		59	
4.4	Lift height	h ₃ (in)		177	
4.5	Extended mast height	h ₄ (in)		212	
4.9	Height of tiller in drive position min./max.	h ₁₄ (in)		38/54	
4.15	Lowered height	h ₁₃ (in)		2.4	
4.19	Overall length	l ₁ (in)	106	110	120
4.20	Length to face of forks	l ₂ (in)	69	72	78
4.21	Overall width	b ₁ (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 ₅ (in)		8.6-30	
4.32	Ground clearance,center of wheelbase	m ₂ (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	

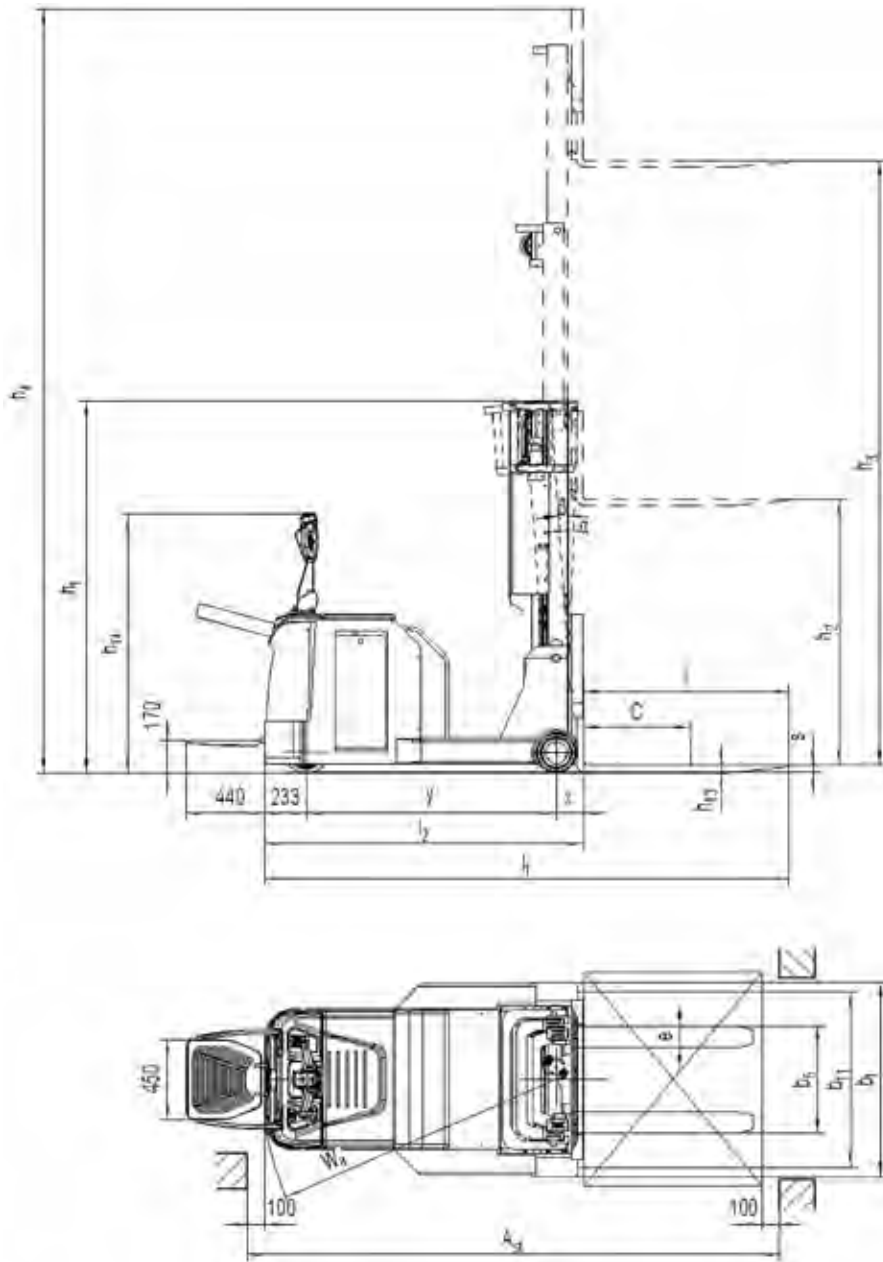
Electric-engine

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	

PSCB



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

WE PROMISE , WE DELIVER



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