

# PS12/16/18CB



## Counterbalanced stand-up rider electric stacker 1200, 1600 and 2000 kg maximum load capacity

### DESCRIPTION

The PS CB electric counterbalanced stacker series is ideal for applications where stacked loads on low and medium-height racks are limited to a few hours per day. Without straddle legs, this electric stacker can perform applications that conventional stackers cannot, such as lifting closed pallets or skids with a bottom.

The PS CB series has 1200, 1600 or 1800 kg load capacity and lifting heights of up to 4000 mm.

Available in option

- Lithium-ion battery



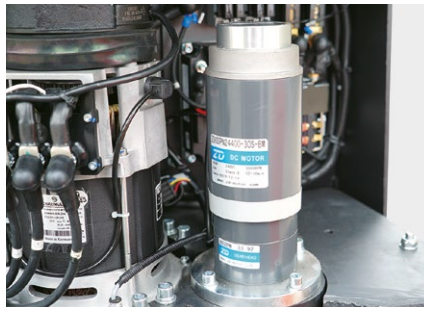
### FEATURES

- Compact structure: short wheelbase and tight turning radius. Ideally suited for applications in narrow aisles
- High efficiency and high driving speed: 7 km/h laden, 8 km/h unladen
- Overall structure optimization increases stability and safety
- Battery side extraction for easy, fast, and efficient replacement
- Proportional lift control ensures maximum precision to position the loads





The powerful AC motor unit, designed and manufactured by Schabmüller, is paired with Kordel drive unit. The motor unit allows up to 8 km/h speed. Rader Vogel high-end steering wheels guarantee an extended service life of the wheels.



The Electric Power Steering (EPS) allows precise and fast control of the steering wheel and ensures high efficiency and optimal safety.



Zapi, Italian electronic controllers, offer a reliable and flexible high-performance solution.



Rema's ergonomic handle ensures a reliable control system.



French HPI hydraulic system guarantees precision when raising or lowering the forks, plus a smooth acceleration or deceleration when handling fragile loads.



The multi-functional control panel can display the equipment's operational status, operating time, battery status, driving speed and steering angle.

The USB charging port can be used to power other devices.

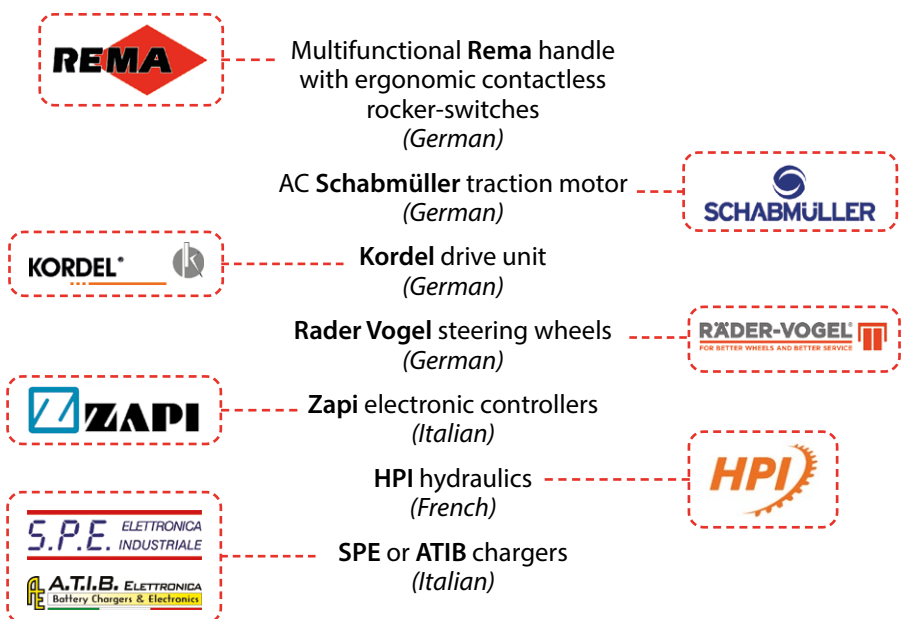


The integrated flip-down platform, the lateral protection arms, and the new internal structure have the smallest overall length and tightest turning radius compared to its competitors. Also, the suspension system of the platform offers excellent comfort.



The mainframe thickness (8mm) guarantees the robustness of the stacker's chassis. In addition, the stainless steel battery cover provides enhanced protection.

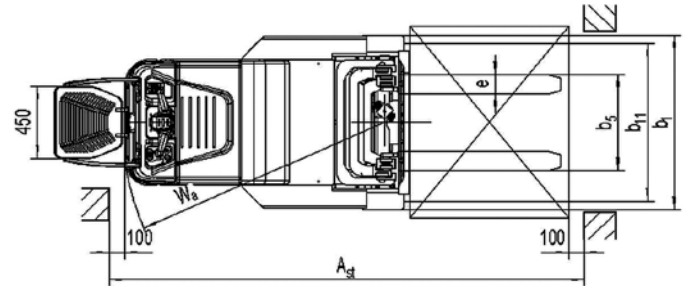
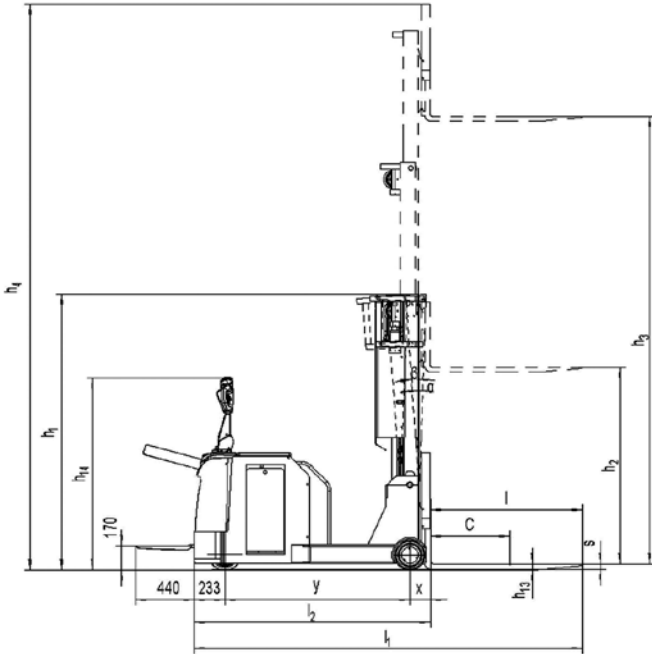
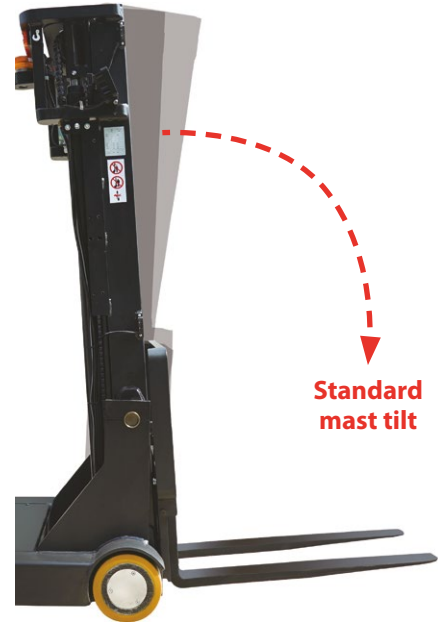
## HIGH-END COMPONENTS



High-end components reduce maintenance costs and guarantee high performance and reliability when performing the most intense operations.



Standard PIN-code or RFID card access control system, available in option, considerably simplifies the access control process if more than one user uses the equipment.



Stockman Reference	Mast	Mast lowered height $h1$ (mm)	Free lift $h2$ (mm)	Standard lift $h3$ (mm)	Mast raised height $h4$ (mm)	Weight (kg)
<b>PS12CB</b>						
PS12CB1600	Single	2196	-	1600	2450	1870
PS12CB2500	Duplex	1850	-	2500	3350	1995
PS12CB3000		2100	-	3000	3850	2035
PS12CB3200		2200	-	3200	4050	2045
PS12CB3600		2400	-	3600	4450	2070
PS12CB4000		2600	-	4000	4850	2090
<b>PS16CB</b>						
PS16CB1600	Simplex	2196	-	1600	2450	1970
PS16CB2500	Duplex	1850	-	2500	3350	2095
PS16CB3000		2100	-	3000	3850	2135
PS16CB3200		2200	-	3200	4050	2145
PS16CB3600		2400	-	3600	4450	2170
PS16CB4000		2600	-	4000	4850	2190
<b>PS18CB</b>						
PS18CB1600	Simplex	2196	-	1600	2450	2150
PS18CB2500	Duplex	1850	-	2500	3350	2280
PS18CB3000		2100	-	3000	3850	2320
PS18CB3200		2200	-	3200	4050	2330
PS18CB3600		2400	-	3600	4450	2355
PS18CB4000		2600	-	4000	4850	2375

Technical data according to VDI 2198 regulation						
Specifications	1.2	Product Reference ♦ Model		PS12CB	PS16CB	PS18CB
	1.3	Power supply		battery	battery	battery
	1.4	Operator type		pedestrian/ stand-up rider		
	1.5	Load capacity	Q(t)	1,2	1,6	1,8
	1.6	Load center distance	c(mm)	500	500	500
	1.8	Distance from carriage to caster axle	x(mm)	150	150	150
	1.9	Wheelbase	y(mm)	1350	1450	1700
Weight	2.1	Weight (batteries included)	kg	see table opposite		
	2.2	Axle load laden front/rear	kg	420/2945	381/3484	505/3685
	2.3	Axle load unladen front/rear	kg	985/1180	1082/1182	1138/1212
Wheels	3.1	Wheels		polyurethane (PU)		
	3.2	Steering wheel dimensions	Øxw(mm)	Ø250x82	Ø250x82	Ø250x82
	3.3	Load rollers dimensions	Øxw(mm)	Ø230x100	Ø230x100	Ø230x100
	3.5	Number of front/rear wheels (x=driving wheel)		1x/2	1x/2	1x/2
	3.6	Front axle wheelbase	b10(mm)	-	-	-
	3.7	Load roller wheelbase	b11(mm)	988	988	988
Dimensions	4.1	Tilt of fork carriage forward/backward	°	1,5/4	1,5/4	1,5/4
	4.2	Mast lowered height	h1(mm)	see table opposite		
	4.3	Free lift	h2(mm)	see table opposite		
	4.4	Standard lift	h3(mm)	see table opposite		
	4.5	Mast raised height	h4(mm)	see table opposite		
	4.9	Tiller height in drive position min/max	h14(mm)	970/1370	970/1370	970/1370
	4.15	Fork lowered height	h13(mm)	60	60	60
	4.19	Overall length	l1(mm)	2690	2790	3060
	4.20	Front axle to fork face length	l2(mm)	1740	1840	1990
	4.21	Overall width	b1(mm)	1090	1090	1090
	4.22	Fork dimensions	s/e/l(mm)	35/100/950	35/100/950	40/120/1070
	4.25	Width across forks	b5(mm)	220/760	220/760	220/760
	4.32	Ground clearance	m2(mm)	52	52	52
	4.33	Aisle width for 1000x1200 mm pallets crossways	Ast(mm)	3110	3210	3360
	4.34	Aisle width for 800x1200 mm pallets lengthways	Ast(mm)	3220	3320	3470
4.35	Turning radius	Wa(mm)	1605	1705	1855	
Performances	5.1	Travel speed, laden/unladen	km/h	7/8	7/8	6/7
	5.2	Lift speed, laden/unladen	mm/s	140/200	120/200	100/200
	5.3	Lowering speed, laden/unladen	mm/s	250/200	300/200	320/200
	5.8	Gradeability laden/unladen	%	6/15	6/15	6/15
	5.10	Service brake		electromagnetic		
Electrical system	6.1	Drive motor rating S2 60 min	kW	2,6	2,6	2,6
	6.2	Lift motor rating at S3 15%	kW	3/3,2	3/3,2	3/3,2
	6.3	Battery acc. to DIN 43531 / 35 / 36 A, B, C, No		DIN	DIN	DIN
	6.4	Battery voltage, nominal capacity K5	V/Ah	24/270	24/270	24/350
	6.5	Battery weight	kg	285	285	315
	6.6	Energy consumption acc. to VDI cycle	kWh/h	1,8	1,88	1,9
Additional data	8.1	Type of drive control		AD	AD	AD
	8.4	Noise level at driver's ear acc. to EN 12053	dB(A)	68	68	68

# RESIDUAL CAPACITY

SX ♦ Single

DX ♦ Duplex

TX ♦ Triplex

SL ♦ Straddle legs

FFL ♦ Full free lift

LI ♦ Initial lift

LP ♦ Proportional lift

DA ♦ Electrical power steering

SC ♦ Built-in weighing scale

CP ♦ Pin code

## PS18CB ♦ PP. 136 TO 139

PS18CB1600 SX

PS18CB2500 DX

PS18CB3000 DX

PS18CB3200 DX

PS18CB3600 DX

PS18CB4000 DX



PS18CB1600 SX

h3 (mm)	Q (kg)	
	1800	1500
1600		

cdg (mm)	500	600
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PS18CB2500 DX

h3 (mm)	Q (kg)	
	1800	1500
2500		

cdg (mm)	500	600
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PS18CB3000 DX

h3 (mm)	Q (kg)	
	1800	1500
3000		

cdg (mm)	500	600
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PS18CB3200 DX

h3 (mm)	Q (kg)	
	1800	1500
3200		

cdg (mm)	500	600
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PS18CB3600 DX

h3 (mm)	Q (kg)	
	1600	1300
3600		
3300		

cdg (mm)	500	600
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PS18CB4000 DX

h3 (mm)	Q (kg)	
	1400	1100
4000		
3600		
3300		

cdg (mm)	500	600
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