

## STACKER

# PS12/16/20N

The range of stackers includes a wide list of models with capacity from 1200 kg to 2000 kg and lifting height up to 5500 mm.

### INTRODUCTION

The truck is designed to be used with high efficiency even during multi-shift operation. Its configuration allows for more powerful and productive units thanks to increased speed and various battery options, including Lithium solutions.



### ADVANTAGES:

- The new range combines all the experience gained by the manufacturer over the years. It uses the most advanced solutions and top-level components to provide the top level of performance to its users.
- During the design stage, priorities included improvement of the service life and performance of the trucks. Focus was also placed on easy maintenance. Interchangeability of components was confirmed not only within the model range but also with other ranges of Noblelift products
- The use of top brand components from well-known suppliers helps to improve reliability and gain trust from customers. Nearly all key components for the model range come from famous brands with rich experience in the material handling industry.



A powerful AC drive unit from the global industry leaders, designed and produced by Schabmuller, is combined with the top quality ZF gearbox. Braking: It is equipped with an internal electromagnetic brake. Speed: The drive unit can provide a drive speed of up to 8 km. Wheels: The use of top level quality drive wheels from German manufacturers Rader Vogel or Wicke helps to ensure the long life time of PU tires.



The integrated design of the operator's platform and protective arms, as well as the new internal structure, allows for: Ensuring the smaller body length of the stackers. Providing extremely low turning radius among competitors. The suspension system for the platform provides a high level of comfort to the operators.



The use of an apron with 8mm thickness allows to ensure the robustness of the chassis and its strength even in case of collision against objects. Battery Cover: The strong battery cover is made out of steel and helps to provide a high level of strength for this part.



The driving controllers and steering controllers are manufactured by Zapi (Italy). Zapi is a leading European brand with a long history in the industry. They provide extremely reliable and flexible solutions with high performance level for the control system.



There is an option of a PIN-code panel access. \* This works not only with the PIN-code but also with access cards (RFID). It significantly simplifies the procedure of access limitation for the fleet, which may be used by more than one operator.



The Rema Tiller delivers high level of ergonomics as well as reliability of the control system. It ensures a long life-time thanks to the contactless rocker switches designed for the lifting/lowering function.



The model range can be equipped with the option of Electric Power Steering (EPS). EPS delivers precise and fast control for the position of the steering wheel. It also has a high level of reliability as well as safety according to official standards.

### Mast table PS12N/16N/20N

Designation	Lowered mast height H1 (mm)	Free lift height h2 (mm)	Lift height h3 (mm)	Extended mast height h4 (mm)
<b>PS12N</b>				
Two-stage mast	1958	/	2810	3380
	2108	/	3110	3680
	2308	/	3510	4080
Two-stage mast FFL (Full-Free-Lift)	1958	1410	2810	3380
	2108	1560	3110	3680
	2308	1760	3510	4080
Three stage mast FFL (Full-Free-Lift)	1998	1320	3910	4480
	2008	1420	4210	4780
	2108	1520	4510	5080
<b>PS16N</b>				
Two stage mast	1958	/	2810	3380
	2108	/	3110	3680
	2308	/	3510	4080
Two stage mast FFL (Full-Free-Lift)	1958	1410	2810	3380
	2108	1560	3110	3680
	2308	1760	3510	4080
Three stage mast	2008	/	4210	4780
	2108	/	4510	5080
Three stage mast FFL (Full-Free-Lift)	1908	1320	3910	4480
	2008	1420	4210	4780
	2108	1520	4510	5080
	2343	1756	5230	5780
<b>PS20N</b>				
PS20N Two stage mast	2078	/	2810	3500
	2228	/	3110	3800
	2428	/	3510	4200
Two stage mast FFL (Full-Free-Lift)	1978	1310	2610	3300
	2078	1410	2810	3500
	2228	1560	3110	3800
	2428	1760	3510	4200
Three stage mast	2128	/	4210	4900
	2228	/	4510	5200
Three stage mast FFL (Full-Free-Lift)	1978	1310	3910	4600
	2128	1420	4210	4900
	2228	1520	4510	5200



#### Side Battery Replacement:

This option allows customers to use the truck with multi-shift operation. It prevents wasting time on the complicated procedure of battery replacement through the top.



#### Aquamatic Refilling System:

The trucks can be equipped with the option of Aquamatic. This system provides fast refilling of distilled water in lead-acid batteries. The 2-ton pallet truck can be optionally equipped with a battery under the 3VBS standard, which reduces the length of the original truck and makes it more compact (the standard battery is 2PZS).



#### Lithium Battery Option:

The model range can be equipped with Lithium batteries. Using the lithium solution offers several benefits of Lithium technology, including: Fast battery charging, Opportunity charging, Maintenance free, Environmental-friendly.

## Type Sheet for industrial truck ACC TO VDI 2198 1KG-2.2LB 1 INCH=25.4 mm

Identification					
	Manufacturer's type designation		PS12N(3600)	PS16N(3500)	PS20N(4600)
1.3	Drive			Battery	
1.4	Operator type			Pedestrian	
1.5	Load capacity/rated load	Q (t)	1.2	1.6	2.0
1.6	Load center distance	c (mm)		600	
1.8	Load distance centre of drive axle to fork	x (mm)		647	
1.9	Wheelbase	y (mm)	1167	1215	1327
Weights					
2.1	Service weight	kg	1080	1380	1620
2.2	Axle load at full load, drive side/load side	kg	860/1420	1040/1940	1210/2410
2.3	Axle load at no load, drive side/load side	kg	780/300	940/440	1090/540
Wheels. Chassis					
3.1	3.1 Tires			Polyurethane(PU)	
3.2	3.2 Tire size, front	Ø x w (mm)		Ø230×70	
3.3	3.3 Tire size, rear	Ø x w (mm)		Ø84×70	
3.4	3.4 Additional wheels(dimensions)	Ø x w (mm)		Ø150×54	
3.5	3.5 Wheels, number front/rear (=driven wheels)			1x + 1 / 4	
3.6	3.6 Tread, front	b10 (mm)		510	
3.7	3.7 Tread, rear	b11 (mm)		390/505	
Basic Dimensions					
4.2	Lowered mast height	h1 (mm)	2308	2404	2228
4.3	Free Lift height	h2 (mm)	1760	1820	1520
4.4	Lift	h3 (mm)	3510	5410	4510
4.5	Extended maximal height	h4 (mm)	4080	6110	5200
4.9	Height of tiller in drive position min./ max.	h14 (mm)		950/1350	
4.15	Height, lowered	h13 (mm)		90	
4.19	4.19 Overall length	l1 (mm)	1855'	1896'	2025'
4.20	4.20 Length to face of forks	l2 (mm)	705'	746'	875'
4.21	4.21 Overall width	b1 (mm)		790	
4.22	4.22 Fork dimensions	a/c/l (mm)		60 / 180 / 1150	
4.25	4.25 Width across forks	b5 (mm)		570/585	
4.32	4.32 Ground clearance, centre of wheelbase	m2 (mm)	28	28	23
4.33	4.33 Aisle width for pallets 1000X1200 crossways	Ast (mm)	2285'	2325'	2455'
4.34	4.34 Aisle width for pallets 800X1200 longways	Ast (mm)	2250'	2290'	2420'
4.35	4.35 Turning radius	Wa (mm)	1380'	1420'	1550'
Performance Data					
5.1	Travel speed, laden/ unladen	km/h	7.8/8.0	6.0/7.0	6.0/7.0
5.2	Lift speed, laden/ unladen	m/s	0.09/0.14	0.13/0.20	0.13/0.20
5.3	Lowering speed, laden/ unladen	m/s	0.25/0.20	0.28/.23	0.28/0.23
5.8	Max. gradeability, laden/unladen	%	6/12	6/12	6/10
5.10	Service brake			Electromagnetic	
E-Motor					
6.1	Drive motor rating, S2 60min	kW		1.4	
6.2	Lift motor rating at S3 10%	kW	1.5	3.2	3.2
6.3	Battery acc. to DIN 43531/ 35/36 A, B, C, no		2VBS	3VBS	3PZS
6.4	Battery voltage, nominal capacity K5	V / Ah	24/160-180	240/210-270	24/270-350
6.5	Battery weight	kg	155	185	235
6.6	Energy consumption acc. to VDI cycle	kWh/h	0.95	1.34	1.70
Other Details					
8.1	Type of drive control			AC- speed control	
8.4	Sound level at driver's ear acc. to EN 12053 with compact platform: +44mm	dB(A)		<69	



# Smart Stacking Starts Here

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