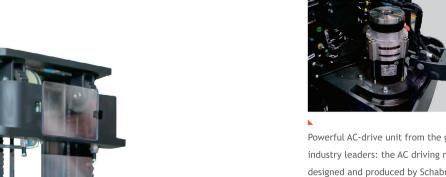


## PS12/16/20N

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

## INTRODUCTION

The truck designed to be used with high efficienty even during their multi-shift operation. The configuration of the truck allows you to get more powerful and productive units thanks to its increased speed and different options of batteries, including Lithium solutions.



Powerful AC-drive unit from the global industry leaders: the AC driving motor designed and produced by Schabmuller comes together with the top quality ZF gearbox and it is equipped with Intorq electromagnetic brake. The drive unit can provide the drive speed up to 8 km/h.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 operator's platform and protective arms as well as totally new internal structure allows to ensure the smallest body length of the stackers and provide extremely low turning radius among competitors.

Together with this, the suspension system for the platform helps to provide the high level of comfort to operators.



The driving controllers and steering controllers are manufactured by Zapi (Italy) - the leading European brand with long history in the industry, which provides extremely reliable and flexible solutions with high performance level of the control system.



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



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



The option of PIN-code panel access, which works not only with PIN-code but also with access cards (RFID), can significantly simplify the procedure of access limitation for the fleet which may be used by more than one operator.



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

ARAS Developments FZE JAFZ, Dubai - UAE T: +971 4 887 6602 E: sales@arasfze.com W: www.arasfze.com



Mast table PS12N/16N/20N								
Designation	Lowered mast height h <sub>1</sub> (mm)	Free lift height h <sub>2</sub> (mm)	Lift height h <sub>3</sub> (mm)	Extended mast height h₄(mm)				
		PS12N						
Two-stage mast	1958 2108 2308	/ / /	2830 3130 3530	3380 3680 4080				
Two-stage mast FFL (Full-Free-Lift)	1958 2108 2308	1410 1560 1760	2830 3130 3530	3380 3680 4080				
Three stage mast FFL (Full-Free-Lift)	1998 2008 2108	1320 1420 1520	3930 4230 4530	4480 4780 5080				
PS16N								
Two stage mast	1958 2108 2308	/ / /	2830 3130 3530	3380 3680 4080				
Two stage mast FFL (Full-Free-Lift)	1958 2108 2308	1410 1560 1760	2830 3130 3530	3380 3680 4080				
Three stage mast	2008 2108	/ /	4230 4530	4780 5080				
Three stage mast FFL (Full-Free-Lift)	1908 2008 2108 2343	1320 1420 1520 1756	3930 4230 4530 5230	4480 4780 5080 5780				
		PS20N						
Two stage mast	2078 2228 2428	/ / /	2830 3130 3530	3500 3800 4200				
Two stage mast FFL (Full-Free-Lift)	1978 2078 2228 2428	1310 1410 1560 1760	2630 2830 3130 3530	3300 3500 3800 4200				
Three stage mast	2128 2228	/ /	4230 4530	4900 5200				
Three stage mast FFL (Full-Free-Lift)	1978 2128 2228	1310 1420 1520	3930 4230 4530	4600 4900 5200				



The option of side battery replacement allows customers to use the truck with multi-shift operation and not to waste time on complicated procedure of battery replacement through the top. With help of specially designed trolley, the batteries can be replaced fast and effortlessly.



The trucks can be equipped with the option of Aquamatic- the system of fast refilling of distilled water in lead-acid batteries. The 2-ton pallet truck can be optionally equipped with the battery under 3VBS standard, which helps to reduce the length of the original truck and make it more compact (the standard battery is 2PzS).



The model range can be equipped with Lithium batteries. The use of lithium solution from Noblelift will allow you to enjoy benefits of Lithium technology such as Fast charging, Opportunity charging, Maintenance free, Environmental-friendly, Smart Diagnosis of battery status, Lower cost of Total Ownership with long service life.

Type sheet fo	or in	dustrial truck acc. to VDI 2198	1KG=2.2LI	B 1INCH=25.4MM		
	1.2	Manufacturer's type designation		PS12N(3600)	PS16N(5500)	PS20N(4600)
Distinguishing mark	1.3 1.4 1.5 1.6 1.8 1.9	Power (battery ,diesel, petrol, gas, manual)  Operator type  Load Capacity / rated load  Load centre distance  Load distance ,centre of drive axle to fork  Wheelbase	Q (t) c (mm) x (mm) y (mm)	1.2 1167	Battery Pedestrian 1.6 600 647 1215	2.0 1327
Weight	2.1 2.2 2.3	Service weight Axle loading, laden front/rear Axle loading, unladen front/rear	kg kg kg	1080 830/1420 750/300	1380 990/1940 890/440	1620 1160/2410 1040/540
Tires, chassis	3.1 3.2 3.3 3.4 3.5 3.6 3.7	Tires Tire size,front Tire size,rear Additional wheels(dimensions) Wheels,number front/rear(x=driven wheels) Tread, front Tread, rear	Фхw (mm) Фхw (mm) Фхw (mm) b <sub>10</sub> (mm) b <sub>11</sub> (mm)	F	Polyurethane(PU)	
Dimensions	4.2 4.3 4.4 4.5 4.9 4.15 4.19 4.20 4.21 4.25 4.32 4.33 4.34 4.35	Lowered mast height Free Lift height Lift height Extended mast height Height of tiller in drive position min./ max. Height, lowered Overall length Length to face of forks Overall width Fork dimensions Distance between fork-arms Ground clearance, centre of wheelbase Aisle width for pallets 1000X1200 crossways Aisle width for pallets 800X1200 lengthways Turning radius	h <sub>1</sub> (mm) h <sub>2</sub> (mm) h <sub>3</sub> (mm) h <sub>4</sub> (mm) h <sub>14</sub> (mm) h <sub>14</sub> (mm) l <sub>1</sub> (mm) l <sub>2</sub> (mm) b <sub>1</sub> (mm) s/e/l (mm) b <sub>5</sub> (mm) m <sub>2</sub> (mm) Ast (mm) Wa (mm)	2308 1760 3530 4088 1855 <sup>1)</sup> 705 <sup>1)</sup> 28 2285 <sup>1)</sup> 2250 <sup>1)</sup> 1380 <sup>1)</sup>	2410 1820 5430 6110 950/1350 90 1896¹¹ 746¹¹ 790 60 / 180 / 1150 570 /685 28 2325¹¹ 2290¹¹ 1420¹¹	2228 1520 4530 5208 2025 <sup>1)</sup> 875 <sup>1)</sup> 23 2455 <sup>1)</sup> 2420 <sup>1)</sup> 1550 <sup>1)</sup>
Performance data	5.1 5.2 5.3 5.8 5.10	Travel speed, laden/ unladen Lift speed, laden/ unladen Lowering speed, laden/ unladen Max. gradeability, laden/ unladen Service brake	km/h m/s m/s %	7.0/8.0 0.09/0.14 0.25/0.20 6/12	6.0/7.0 0.13/0.20 0.28/0.23 6/12 Electromagnetic	6.0/7.0 0.13/0.20 0.28/0.23 6/10
Electric- engine	6.1 6.2 6.3 6.4 6.5 6.6	Drive motor rating S2 60min  Lift motor rating at S3 4.5%  Battery acc. to DIN 43531/35/36 A, B, C, no Battery voltage, nominal capacity K5  Battery weight +/-5%  Energy consumption acc: to VDI cycle	kW kW V / Ah kg kWh/h	1.5/3.2 2VBS 24/160-180 155-175 0.95	1.4 3.2 3VBS 240/210-270 185-235 1.34	3.2 3PZS 24/270-350 235-285 1.70
Additional data	8.1 8.4	Type of drive control  Sound level at driver's ear acc. to EN 12053	dB(A)	ı	AC- speed control	

<sup>1)</sup> with compact platform:+440mm

ARAS Developments FZE JAFZ, Dubai - UAE T: +971 4 887 6602 E: sales@arasfze.com W: www.arasfze.com