FPS12N/FPS16N/FPS20N

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.



- The new model range of short-tiller trucks introduced by Noblelift has combined all the experience gained by the manufacturer over past years. By using of the most advanced solutions and top level components, the new range is ready to provide the top level of performance to its users.
- During the design stage, several priorities and various details were considered and verified such as improvement of the service life and performance of our trucks, easy maintenance as well as confirmation of interchangeability of components not only within model range, but also with other ranges of Noblelift products.
- The experience of Noblelift shows that the use of top brand components from well-known suppliers not only helps to improve reliability, but also gain trust from our customers and put the products to a new level. That is why nearly all key components used for the model range are coming from famous brands with rich experience in material handling industry.



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.



				Extended mas
Designation	Lowered mast height h ₁ (mm)	Free lift height h ₂ (mm)	Lift height h ₃ (mm)	height h ₄ (mm)
		FPS12N		
	1958	1	2830	3380
Two-stage mast	2108	1	3130	3680
	2308	1	3530	4080
Two-stage mast FFL (Full-Free-Lift)	1958	1410	2830	3380
	2108	1560	3130	3680
	2308	1760	3530	4080
Three stage mast FFL	1998	1320	3930	4480
(Full-Free-Lift)	2008 2108	1420 1520	4230 4530	4780 5080
(Fair Frod Ent)	2108		4530	5080
	·	FPS16N		2000
Two stage mast	1958	1,	2830	3380
	2108	l,	3130	3680
	2308	I.	3530	4080
Two stage	1958	1410	2830	3380
mast FFL	2108	1560	3130	3680
(Full-Free-Lift)	2308	1760	3530	4080
Three stage	2008	t	4230	4780
mast	2108	i	4530	5080
Three stage	1908	1320	3930	4480
mast FFL	2008	1420	4230	4780
(Full-Free-Lift)	2108	1520	4530	5080
	2343	1756	5230	5780
		FPS20N		
Two stage	2078	1	2830	3500
mast	2228	1	3130	3800
	2428	1	3530	4200
Tive etems	1978	1310	2630	3300
Two stage mast FFL	2078	1410	2830	3500
(Full-Free-Lift)	2228	1560	3130	3800
	2428	1760	3530	4200
Three stage	2128	¥	4230	4900
mast	2228	γ	4530	5200
	1978	1310	3930	4600
Three stage mast FFL	2128	1420	4230	4900
(Full-Free-Lift)	2228	1520	4530	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 inc	dustrial truck acc. to VDI 2198	1KG=2.2I	B 1INCH=25.4MM		
Distinguishing mark	1.2 1.3 1.4 1.5 1.6 1.8 1.9	Manufacturer's type designation 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)	FPS12N(3600) 1.2 1167	PS16N(5500) Battery Pedestrian 1.6 600 647 1215	FPS20N(4600) 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 ₁₀ (mm) b ₁₁ (mm)	,	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 ₁ (mm) h ₂ (mm) h ₃ (mm) h ₄ (mm) h ₁₄ (mm) h ₁₅ (mm) l ₁ (mm) l ₂ (mm) s/e/l (mm) s/e/l (mm) Ast (mm) Ast (mm) Wa (mm)	2308 1760 3530 4088 1855 ¹⁾ 705 ¹⁾ 28 2285 ¹⁾ 2250 ¹⁾ 1380 ¹⁾	2410 1820 5430 6110 950/1350 90 1896 ¹⁾ 746 ¹⁾ 790 60 / 180 / 1150 570 /685 28 2325 ¹⁾ 2290 ¹⁾ 1420 ¹⁾	2228 1520 4530 5208 2025 ¹⁾ 875 ¹⁾ 23 2455 ¹⁾ 2420 ¹⁾ 1550 ¹⁾
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)		AC- speed control <69	

¹⁾ with compact platform:+440mm