PS 12L / PS 16L / PS 20L

Electric Pedestrian Stacker with capacities of 1200/1600/2000kg

- Ergonomic, Compact and Safe Long Tiller Design
- Precise Lifting and Lowering with Full Proportional Hydraulic System
- Powerful, Maintenance Free German AC Power Train
- Core Components from Top Quality Brands
- 4 Wheel Structure for Stability

INTRODUCTION

The PS 12- 20L series is tailored to most pedestrian controlled stacking operations with capacities from 1200kg up to 2000kg.

With the long mounted tiller the operator keeps safe and ergonomic distance to perform his work,

Due to the gentle operating full proportional lifting system stacking operations becomes more safer and quicker.

With the high- quality and state of the art top-brand components and technologies, the truck competes with leading well- known brands in the market.

Top brand qualified components

Using high quality core components:

- Reliable multifunctional REMA tiller with ergonomic contact less rocker- switches
- Top quality Schabmueller AC drive motor
- Kordel gearbox
- · HPI hydraulic power pack
- Zapi controller
- Intorque brakeWicke drive wheel

The used parts reduce high service costs and give you the performance and reliability which is required for the demanding stacking operations.





Long tiller design for ergonomics and safety

In particular through the long tiller design the operator can always keep a safe distance to the truck during proceeding the work very ergonomically.

The design ensures lower operational forces than trucks with a short tiller.

The tillers operating height is naturally positioned to ergonomic, operator friendly controlling positions.

Specifically staking operations becomes more ergonomically and quicker due to the safe distance and better view to the forks. The 4 wheel design with the sideways long mounted tiller gives particular an exact and perfect view to the forks.



The electronically controlled proportional lifting system ensures accurate positioning and stacking operations at every lifting height.

In specific with high masts the electronic controlled proportional lifting performs at its best.



CAN-BUS

CANBUS technology

The CANBUS technology is due to less wiring more reliable.

For maintenance the CANBUS technology makes analysis and adjustments easier so that the downtime is lower than for trucks without CANBUS.

Digital signals further makes parts longer lasting than analogue signals.





Maintenance friendly

The trucks design and the used components are tailored to make service and maintenance easy. All components are easy to reach when removing the main cover only with 2 screws. The drive wheel and the castor wheel are easy to exchange without craning the truck.



For every application the right battery capacity

With the PS-L series for every truck the right battery:

- PS 12L with 180 Ah 2VBS battery for short truck length, good maneuverability and for
- operating restricted areas.
 PS 16L with 270 Ah 3VBS battery
- PS 20L with 350 AH DIN 3PzS battery for long operations and multi- shifts.



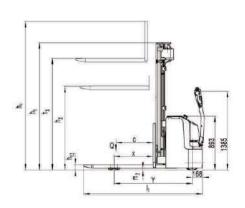
Optional sideways battery exchange compartment for PT20L with 210 Ah battery.

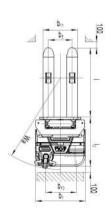
Options

- Various mast versions
- Load backrest
- Sideways battery exchange for PS 16L and PS 20L



Designation	Lowered mast height h1(mm)	Free Lift beight h2(mm)	Lift height h3(mm)	Extended mast beight h4/mm\	Lift+fork height h3+h13(mm)						
Dodignation											
PS 12L 1958 2830 3380 2920											
Two stage mast											
	2108		3130	3680	3220						
	2308		3530	4080	3620						
Two stage mast FFL (Full-Free-Lift)	1958	1410	2830	3380	2920						
	2108	1560	3130	3680	3220						
	2308	1760	3530	4080	3620						
PS 16L											
Two stage mast	1958		2830	3380	2920						
	2108		3130	3680	3220						
	2308		3530	4080	3620						
Two stage mast FFL (Full-Free-Lift)	1958	1410	2830	3380	2920						
	2108	1560	3130	3680	3220						
	2308	1760	3530	4080	3620						
Three stage mast	2008		4230	4780	4320						
	2108		4530	5080	4620						
Three stage mast FFL (Full-Free-Lift)	1908	1320	3930	4480	4020						
	2008	1420	4230	4780	4320						
	2108	1520	4530	5080	4620						
	2343	1756	5230	5780	5320						
			PS 20L								
Two stage mast	2078		2830	3500	2920						
	2228		3130	3800	3220						
	2428		3530	4200	3620						
	1978	1310	2630	3300	2720						
Two stage mast FFL (Full-Free-Lift)	2078	1410	2830	3500	2920						
	2228	1560	3130	3800	3220						
	2428	1760	3530	4200	3620						
Three stage mast	2128		4230	4900	4320						
	2228		4530	5200	4620						
Three stage mast FFL	1978	1310	3930	4600	4020						
(Full-Free-Lift)	2128	1420	4230	4900	4320						
,	2228	1520	4530	5200	4620						





Type sheet for industrial truck acc. to VDI 2198 1NG-2.21B 1INGH-25.4MM								
Distinguishing mark	1.2	Manufacturer's type designation		PS 12L(3600)	PS 16L(4600)	PS 20L(4600)		
	1.3	Power (battery ,diesel, petrol, gas, manual)			Battery			
	1.4	Operator type			Pedestrian			
	1.5	Load Capacity / rated load	Q(t)	1.2	1.6	2.0		
	1.6	Load centre distance	c(mm)		600			
	1.8	Load distance ,centre of drive axle to fork	x(mm)		647			
	1.9	Wheelbase	Y(mm)	1248	1293	1429		
Weight	2.1	Service weight	kg	1007	1340	1579		
	2.2	Axle loading, laden front/rear	kg	684/1523	930/2010	1000/2579		
	2.3	Axle loading, unladen front/rear	kg	610/397	850/490	900/679		
	3.1	Tires Polyurethane (F Tire size, front Øx w (mm) Ø230×70			Polyurethane (PU)			
	3.2	Tire size, rear	Øx w (mm)		Ø85×75			
Tires, chassis	3.4				Ø150×54			
	3.5	Additional wheels(dimensions) Wheels, number front/rear(x=driven wheels)	DX II (11111)		1x+1/4			
	3.6	Track, front	b10mm		522			
	3.7	Track, rear	b11 (mm)		390/505			
	4.2	Lowered mast height	h1 (mm)	2308	2108	2228		
Dimensions	4.3	Free Lift height	h2 (mm)	1760	1520	1520		
	4.4	Lift height	h3 (mm)	3600	4600	4600		
	4.5	Extended mast height	h4 (mm)	4088	5088	5208		
	4.9	Height of tiller in drive position min./ max.	h14mm		850/1385			
	4.15	Height, lowered t	h13mm		90			
	4.19	Overall length	I1mm	1919	1964	2100		
	4.20	Length to face of forks	I2mm	769	814	950		
	4.21	Overall width	b1mm		820			
	4.22	Fork dimensions	s/e/I (mm)	60/180/1150				
	4.25	Distance between fork-arms b5 (mm) 570/685						
	4.32	Ground clearance, centre of wheelbase	m2mm	28	28	23		
	4.33	Aisle width for pallets 1000X1200 crossways	Ast (mm)	2336	2406	2536		
	4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)	2456	2393	2523		
	4.35	Turning radius	Wa (mm)	1440	1510	1640		
Performance data	5.1	Travel speed, laden/ unladen	km/h	6.0/6.0	5.7/6.0	5.4/6.0		
	5.2	Lift speed, laden/ unladen	m/s	0.10/0.17	0.13/0.20	0.13/0.20		
	5.3	Lowering speed, laden/ unladen	m/s	0.11/0.11	0.20/0.14	0.20/0.14		
	5.8	Max. gradeability, laden/ unladen	%	6/12	6/12	6/10		
	5.10	Service brake			Electromagnetic			
Electric- engine	6.1	Drive motor rating S2 60min	kW kW	1.3	1.3	1.7		
	6.2	Lift motor rating at S3 4.5%	KVV	1.5	3.2	3.2		
	6.3	Battery acc. to DIN 43531/35/36 A, B, C, no	V/Ah	2VBS	3VBS	3PZS		
	6.4	Battery voltage, nominal capacity K5	kWh/h	24/180 175	24/270 230	24/350		
	6.5	Battery weighi Energy consumption acc: to VDI cycle	SYTIMI	0.95	1.59	288 1.70		
	8.1	Type of drive control	dB(A)	0.90	AC-speed control	1.70		
Additional data	8.4	Sound level at driver's ear acc. to EN 12053		AC-speed control				
	0.4	Sound for at differ a Gall acc. to EN 12055			-70			