PS12L LI - PS16L LI

Industrial electric stacker with initial lift and load capacities of 1200 and 1600 kg

Optional lithium battery

INTRODUCTION

The PS L LI range is suitable for most walkie stacking operations with load capacities ranging from 1200 to 1600 kg.

The long tiller handle improves ergonomics and helps maintain a safe distance between the operator and the stacker.

Stacking operations are more reliable and faster thanks to the proportional lift system.

PS16L LI

// ADVANTAGES

- Ergonomic, compact and extremely manoeuvrable
- Standard initial lift
- Proportional lifting and lowering for optimum precision
- Powerful, maintenance-free Schabmüller AC motor unit
- Key components from premium brands
- Four-point support structure for greater stability

INITIAL LIFT STANDARD

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Initial lift

Thanks to the 120mm initial lift, efficiency is doubled compared to a traditional stacker. The side members have high ground clearance, allowing for safe operation on walkways, ramps or uneven surfaces.

Electric proportional lifting and lowering

The electric proportional lift and lower system ensures precise fork positioning and stacking operations at any height. Proportional lifting delivers better performance when stacking at significant heights.

Long tiller handle for improved ergonomics and safety

A long tiller allows the user to maintain a safe distance from the stacker whilst working ergonomically. The design ensures reduced effort compared to other stackers fitted with a short tiller. With four support points and a long side tiller, it provides excellent visibility.

CAN-BUS technology

CAN-BUS technology requires less cabling, resulting in greater reliability. For maintenance purposes, this technology facilitates diagnostics and adjustments. Digital signals make components more durable than analogue signals.

CAN-BUS

German AC traction motor

The power of the maintenance-free German Schabmüller AC motor, combined with the German Kordel gearbox, the Intorq brake and Wicke steering wheels, delivers high performance, efficiency and reliability to reduce operating costs. Whatever the requirement, the AC motor always provides the right response: whether smooth or powerful acceleration.

Easy maintenance

The stacker's design and the components used are engineered to facilitate servicing and maintenance. All components are easily accessible by removing the cover, which is secured by just two screws. The wheels and rollers are easy to replace without the need to tip the stacker.

Robust and reliable design

The robust chassis, featuring an 8 mm thick reinforced deck, protects the stacker and its components from external impacts. Environments with dirty floors have less impact on the AC motor, as the components and brake are out of reach of impacts. The drive unit has an IP 54 rating and is protected against dust and water splashes.

HIGH-END COMPONENTS

Rema multi-function tiller with ergonomic touch-free switches *(German)*

Schabmüller AC traction motor *(German)*

Kordel gearbox *(German)*

Intorq brake *(German)*

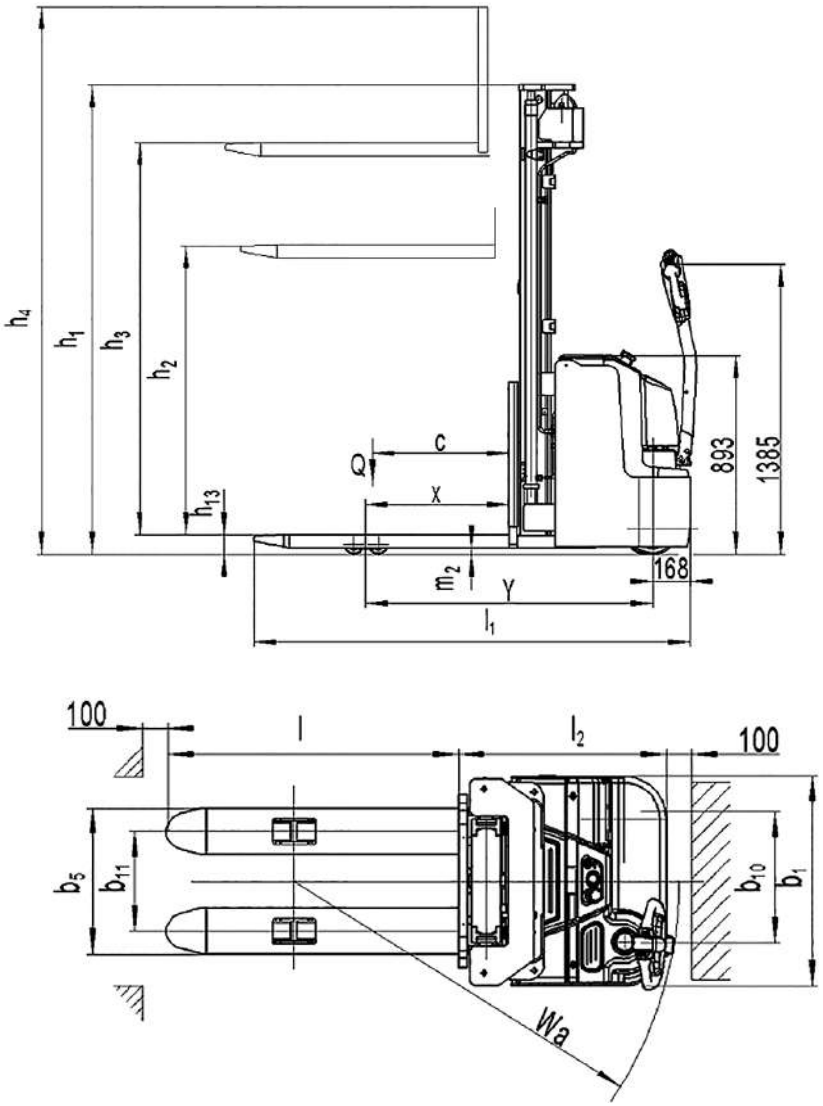
Wicke steering wheels *(German)*

Curtis speed governor *(American)*

HPI hydraulic unit *(French)*

SPE or **ATIB** loaders *(Italian)*

The components used reduce maintenance costs and guarantee the performance and reliability required for the most demanding tasks.



Stockman reference	Mast	Lowered mast height *h1 (mm)*	Free lift *h2 (mm)*	Standard lift *h3 (mm)*	Mast height when extended *h4 (mm)*	Weight *(kg)*
PS12L LI						
PS12L29 LI	**FFL Duplex**	1958	1410	2830	3380	1038
PS12L32 LI		2108	1560	3130	3680	1043
PS12L36 LI		2308	1760	3530	4080	1047
PS12L40 LI	**Triplex FFL**	1908	1310	3930	4600	1150
PS12L43 LI		2128	1420	4230	4900	1170
PS12L46 LI		2228	1520	4530	5200	1190
PS16L LI						
PS16L29 LI	**FFL Duplex**	1958	1410	2830	3380	1255
PS16L32 LI		2108	1560	3130	3680	1270
PS16L36 LI		2308	1760	3530	4080	1275
PS16L40 LI	**Triplex FFL**	1908	1320	3930	4480	1335
PS16L43 LI		2008	1420	4230	4780	1365
PS16L46 LI		2108	1520	4530	5080	1380
PS16L48 LI		2175	1586	4730	5280	1395

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Technical specifications in accordance with VDI 2198					
Specifications	1.2	**Part number - Model**		**PS12L LI**	**PS16L LI**
	1.3	**Drive type**		electric	electric
	1.4	**Driving mode**		accompanying	accompanying driver
	1.5	**Nominal capacity**	*Q (t)*	1.2	1.6
	1.6	**Centre of gravity**	*c (mm)*	600	600
	1.8	**Distance from the deck to the roller centreline**	*x (mm)*	647	647
	1.9	**Wheelbase**	*y (mm)*	1248	1293
Weight	2.1	**Weight with batteries**	*kg*	*see table opposite*	
	2.2	**Axle load with front/rear load**	*kg*	684 / 1523	930 / 2010
	2.3	**Axle load without front/rear load**	*kg*	610 / 397	850 / 490
Wheels Chassis	3.1	**Wheels**		polyurethane (PU)	
	3.2	**Drive wheel dimensions**	*Ø x w (mm)*	Ø 230 x 70	Ø 230 x 70
	3.3	**Front roller dimensions**	*Ø x w (mm)*	Ø 85 x 75	Ø 85 x 75
	3.4	**Dimensions of stabiliser wheels**	*Ø x w (mm)*	Ø 150 x 54	Ø 150 x 54
	3.5	**Number of front/rear wheels (x = drive wheel)**		1 x + 1 / 4	1 x + 1 / 4
	3.6	**Wheelbase**	*b10 (mm)*	522	522
	3.7	**Rear wheel track**	*b11 (mm)*	390 / 505	390 / 505
Dimensions	4.2	**Height with mast lowered**	*h1 (mm)*	*see table opposite*	
	4.3	**Free lift**	*h2 (mm)*	*see table opposite*	
	4.4	**Standard stroke**	*h3 (mm)*	*see table opposite*	
	4.5	**Extended mast height**	*h4 (mm)*	*see table opposite*	
	4.6	**Initial lift**	*h5 (mm)*	120	120
	4.9	**Drawbar height in minimum/maximum driving position**	*h14 (mm)*	850 / 1385	850 / 1385
	4.15	**Minimum fork height**	*h13 (mm)*	90	90
	4.19	**Overall length**	*l1 (mm)*	1919	1964
	4.20	**Length without forks**	*l2 (mm)*	769	814
	4.21	**Overall width**	*b1 (mm)*	820	820
	4.22	**Fork dimensions**	*s / e / l (mm)*	60 / 180 / 1150	60 / 180 / 1150
	4.25	**Outer fork width**	*b5 (mm)*	570 / 685	570 / 685
	4.32	**Ground clearance**	*m2 (mm)*	28	28
	4.33	**Aisle width with 1000 x 1200 mm pallet across**	*Ast (mm)*	2336	2406
	4.34	**Aisle width with 800 x 1200 mm pallet placed lengthways**	*Ast (mm)*	2322	2393
	4.35	**Turning radius**	*Wa (mm)*	1440	1510
Performance	5.1	**Travel speed without / with load**	*km/h*	6 / 6	6 / 5.7
	5.2	**Lifting speed without / with load**	*mm/s*	170 / 100	200 / 130
	5.3	**Lowering speed without / with load**	*mm/s*	110 / 110	140 / 200
	5.8	**Permissible gradient without / with load**	*%*	12 / 6	12 / 6
	5.10	**Service brake**		electromagnetic	
Electrical system	6.1	**Traction motor, S2 power rating for 60 minutes**	*kW*	1.3	1.3
	6.2	**Lifting motor, S3 power rating 10 %**	*kW*	2.2	2.2
	6.3	**Batteries in accordance with DIN 43 531 / 35 / 36 A, B, C, No**		2 VBS	3 VBS
	6.4	**Battery voltage / nominal capacity K5**	*V / Ah*	24 / 180	24 / 270
	6.5	**Battery weight**	*kg*	172 to 175	245 to 255
	6.6	**Energy consumption according to VDI cycle**	*kWh/h*	1	1
Miscellan	8.1	**Transmission type**		AC – speed control	

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eous	8.4	**Noise level at the driver's ear in accordance with EN 12053**	*dB (A)*	< 70	< 70