

FPRT 14

High Performance Straddle-leg Reach Stacker with Pantograph for Various Stacking Operations

INTRODUCTION

The PS 14RP series comes with a variety of advantages to make the operations effortless and faster to save logistics costs and to increase the handling capacity.

Using the example of the high performance AC drive system, the electric steering or that all lifting operations are controlled by the tiller shows how many advantages are combined in this truck to increase the logistics performance.

The optional available foldable platform is the best choice if the truck is used in larger warehouses with longer travelling distances.

ADVANTAGES

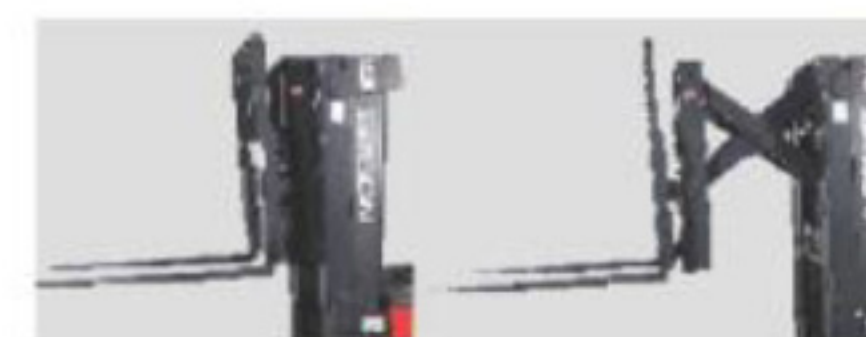
- Capacity of 1363mm/3000lbs.
- Reach Pantograph with fork tilting.
- Noblift AC drive system.
- Electric steering.
- Lifting functions controller ergonomically and effortlessly from the tiller.
- Proportional lift.
- Sideways exchange battery compartment for 4PzS.



CAN-BUS tiller
Lifting operations from the tiller with this CAN-BUS tiller all the functions are easiest to operate. Stacking operations become more precise and quicker.

Proportional lift
The proportional lift functions ensure very precise positioning of fragile loads.

Noblift AC drive system
The AC drive system gives high performance, ensures low maintenance costs and its high efficiency saves energy for longer operations.



Reach Pantograph
With the reach pantograph it is possible to enter into more deeper storage areas without moving a more heavier mast. This reduces maintenance costs.



Sideways battery exchange
During long or multi shifts the sideways exchange battery compartment reduces the downtime to a minimum.



Control elements
Key-switch, emergency switch and battery discharge indicator.

Storage tray
The robust battery cover to with storage areas for utilities or packaging- and stretch foil.

Electric steering
The electric steering makes the operating effortless. Maneuvering in narrow spaces becomes with the electric steering easiest.



Straddle leg and optional bigger load wheel
The straddle leg for high residual capacities and for several applications. Optional larger single load wheel with 230mm/9.1" diameter.

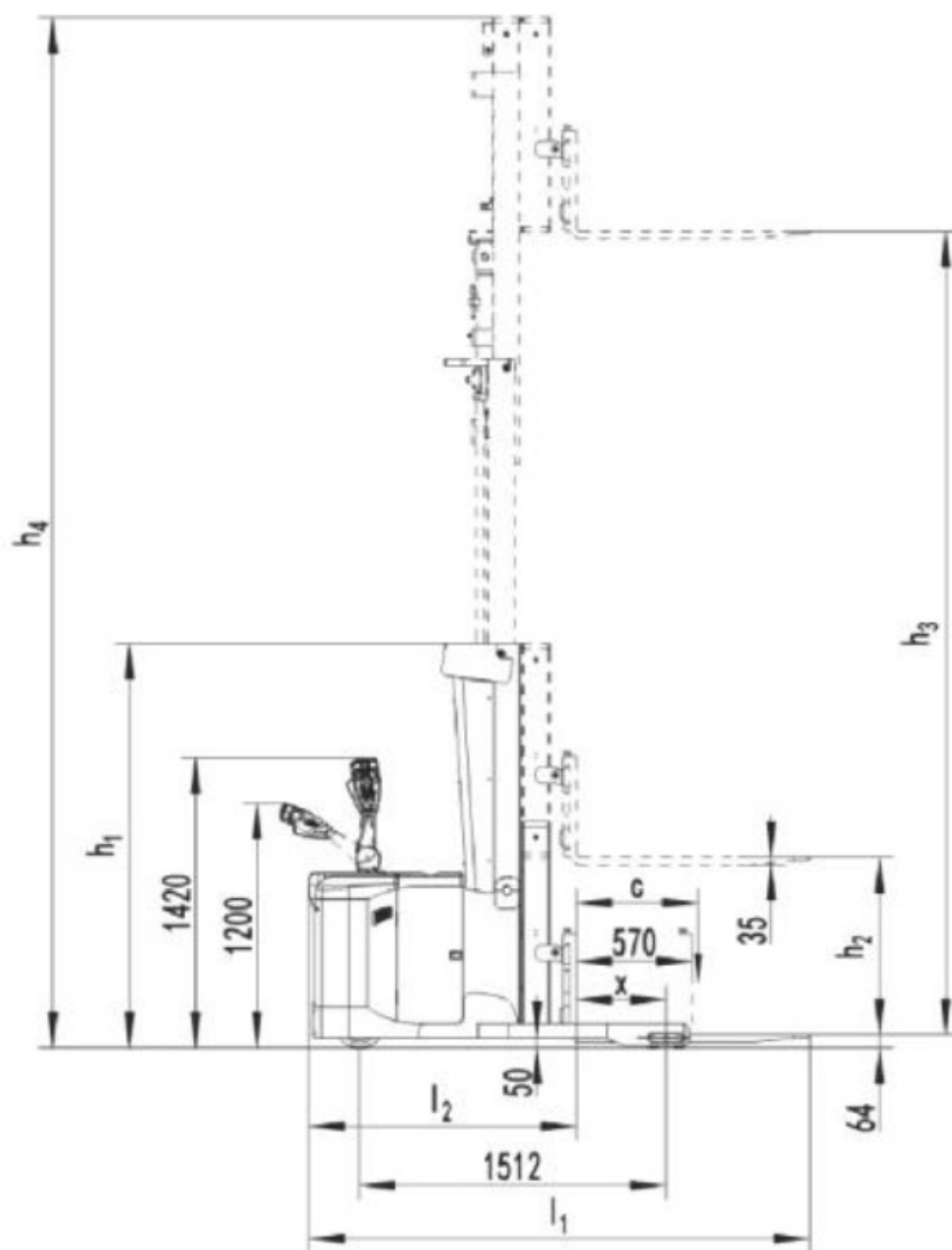
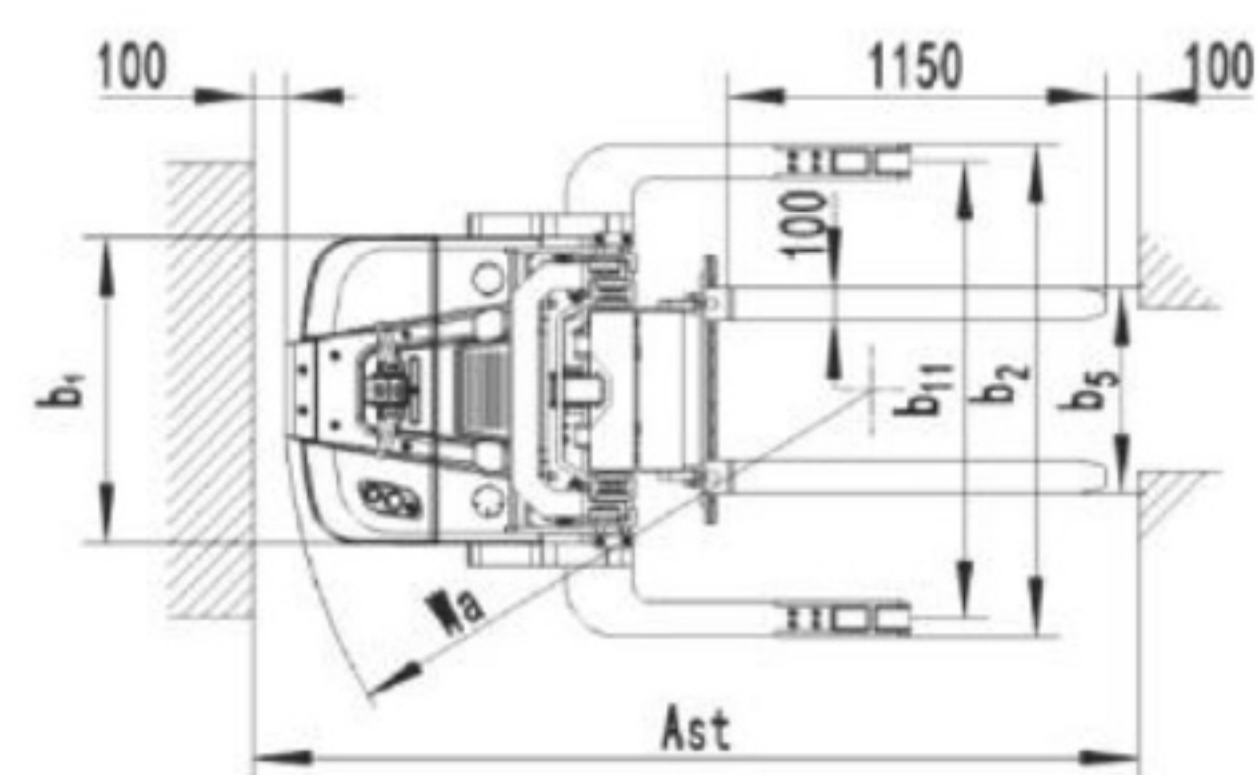
Robust design
Solid straddle legs in combination with the very robust chassis and mast makes.



Optional suspension foldable platform with sideways protective arms. The ergonomically designed foldable platform in combination with its sideways protective arms makes operations faster and safer.



Mast table FPRT 14				
Designation	Lowered mast height h1 inch	Free lift height h2 inch	Lift height h3 inch	Extended mast height h4 inch
FPRT 14				
Two-stage mast	78	-	111.8	155.6
	83.9	-	123.6	167.4
	91.8	-	139.4	183.1
Three-stage mast FFL	78	34.3	155.1	198.9
	85.9	42.1	178.7	222.5
	91.4	47.6	194.5	238.3
	97.7	53.9	214.2	258



Technical data sheet for industrial truck acc. to VDI 2198		116G-2.2LB 116CM-25.4MM								
Distinguishing mark	1.2	Manufacturer's type designation					FPRT 14			
	1.3	Power (battery, diesel, petrol gas, manual)					Battery			
	1.4	Operator type					Pedestrian			
	1.5	Load Capacity / rated load	Q (t)				1.4			
	1.6	Load centre distance	C (mm)				600			
	1.8	Load distance, centre of drive axle to fork	X (mm)				441			
	1.9	Wheelbase	Y (mm)				1512			
	Weight	2.1	Service weight	kg				2430		
		2.3	Axle loading, unladen front/rear	kg				1560/870		
2.4		Axle loading, fork advanced, laden front/rear	kg				886/2944			
2.5		Axle loading, fork retracted, laden front/rear	kg				1413/2417			
Tyres, chassis		3.1	Tires					Polyurethane (PU)		
	3.2	Tire size, front	Ø x w (mm)				Ø254x82			
	3.3	Tire size, rear	Ø x w (mm)				Ø102x70			
	3.5	Wheels, number front/rear(x=driven wheels)					1x+/-2; -/4			
	3.6	Tread, front	b10 (mm)				-			
	3.7	Tread, rear	b11 (mm)				971-1376			
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	°				2/4		
4.2		Lowered mast height	h1 (mm)				1982			
4.3		Free Lift height	h2 (mm)				870			
4.4		Lift	h3 (mm)	2840	3140	3540	3940	4540	4940	5440
4.5		Extended mast height	h4 (mm)				5052			
4.9		Height of tiller in drive position min./ max.	h14 (mm)				1200/1420			
4.15		Height, lowered	h13 (mm)				64			
4.19		Overall length	l1 (mm)				2554			
4.20		Length to face of forks	l2 (mm)				1404			
4.21		Overall width	b1/b2 (mm)				920 / (1077/1482)			
4.22		Fork dimensions	s/e/l (mm)				35/100/1150			
4.25		Distance between fork-arms	b5 (mm)				200-760			
4.28		Reach distance	l4 (mm)				570			
4.32		Ground clearance, centre of wheelbase	m2 (mm)				50			
4.33		Aisle width for pallets 1000X1200 crossways	Ast (mm)				2791			
4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)				2828				
4.35	Turning radius	Wa (mm)				1770				
Performance data	5.1	Travel speed, laden/ unladen	km/h				7.0/7.0			
	5.2	Lift speed, laden/ unladen	m/s				0.12/0.19			
	5.3	Lowering speed, laden/ unladen	m/s				0.17/0.15			
	5.4	Reaching speed, laden/unladen	m/s				0.15/0.16			
	5.8	Max. gradeability, laden/ unladen	%				6/10			
	5.10	Service brake					Electromagnetic			
Electric- Motor	6.1	Drive motor rating S2 60min	kW				1.6			
	6.2	Lift motor rating at S3 15%	kW				4.0			
	6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C, no					A, 4Pzs			
	6.4	Battery voltage, nominal capacity K5	V/Ah				24/400			
	6.5	Batteryweight	kg				380			
	6.6	Energy consumption acc. to VDI cycle	kWh/h				2.12			
Additional data	8.1	Type of drive control					AC-Speed Control			
	8.4	sound level at driver's ear acc. to EN 12053	dB(A)				< 70			

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