PS 14RP

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 safe 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

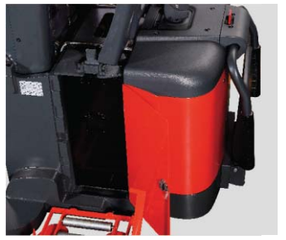
- Capacity of 1363 kg /3000lbs.
- Reach Pantograph with fork tilting.
- Noblelift AC drive system.
- Electric steering.
- Lifting functions controller ergonomically and effortless form the tiller.
- Proportional lift.
- Sideways exchange battery compartment for 4PzS.

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 ensures very precise positioning of fragile loads.

Noblelift AC drive system
The AC drive system gives high performance, ensures low maintenance costs and its high efficiency safes 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.

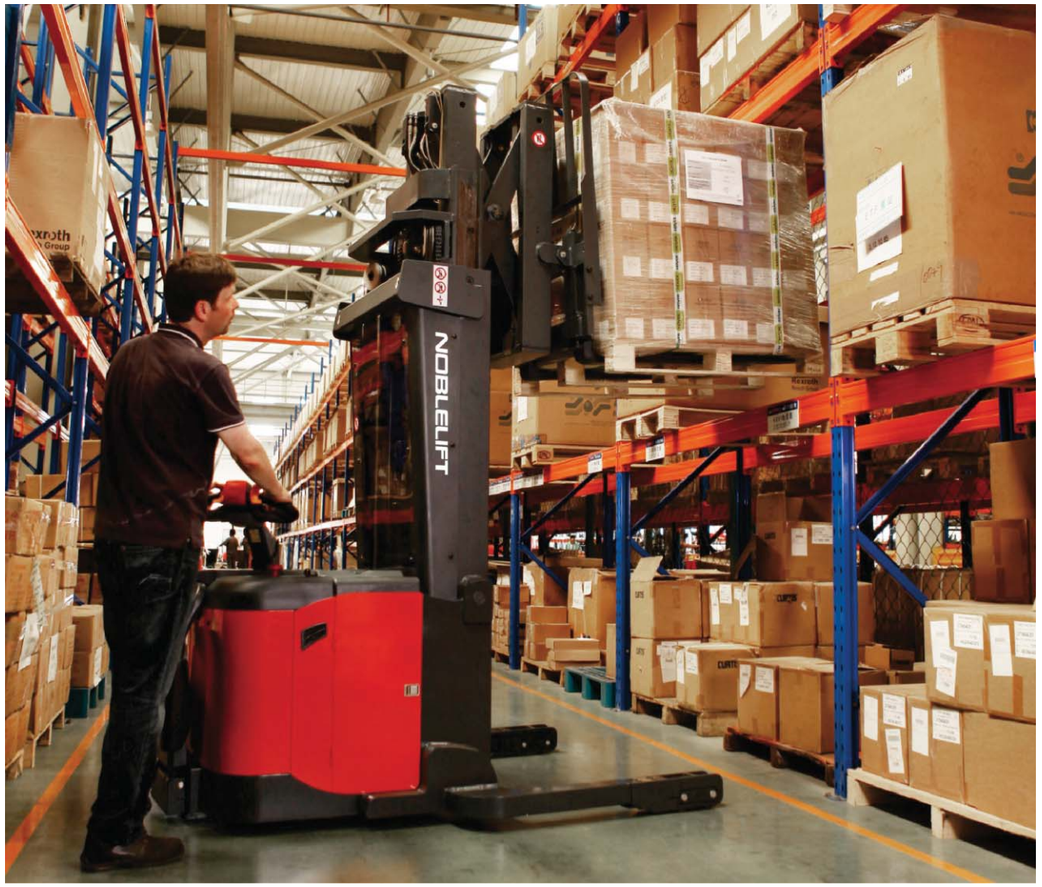
Storage tray
The robust battery cover to with storage areas for utilities or packaging- and stretch foil.

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.

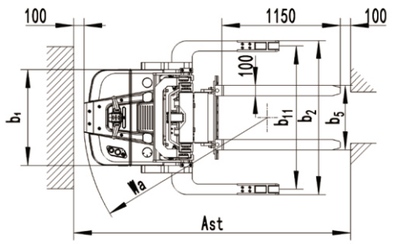
Robust design
Solid straddle legs in combination with the very robust chassis and mast makes.

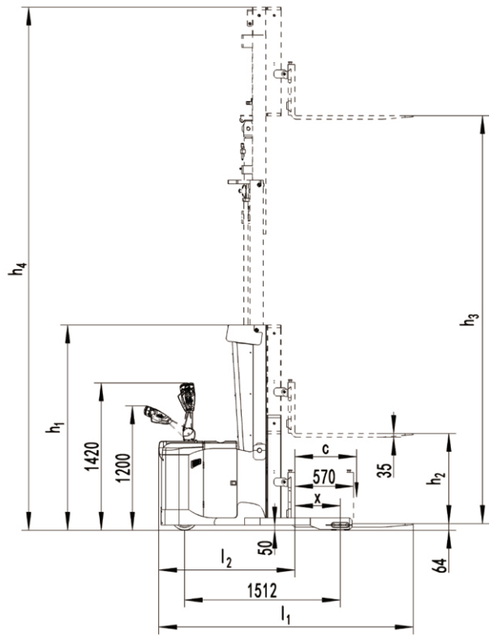
Optional backrest;
Optional suspension foldable platform with sideways protective arms. The ergonomically designed foldable platform in combination with its sideways protective arms makes operations faster and safer.



Mast table PS 14RP

Designation	Lowered mast height mm	Free lift height h2 mm	Lift height h3 mm	Extended mast height h4 mm	Lift+fark height h3+h13 mm
PS 14RP					
Two-stage mast	1982	-	2836	3952	2900
	2132	-	3136	4252	3200
	2332	-	3536	4652	3600
Three-stage mast FFL	1982	870	3936	5052	4000
	2182	1070	4536	5652	4600
	2322	1210	4936	6052	5000
	2482	1370	5436	6552	5500





Technical data sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.2	Manufacturer`s type designation		2900	PS 14RP	4000
	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)	410		441
	1.9	Wheelbase	Y (mm)		1512	
Weight	2.1	Service weight	kg	2240		2430
	2.3	Axle loading, unladen front/rear	kg	1430/810		1560/870
	2.4	Axle loading, fork advanced, laden front/rear	kg	665/2975		885/2945
	2.5	Axle loading, fork retracted, laden front/rear	kg	1260/2380		1415/2415
Tyres, chassis	3.1	Tires			Polyurethane (PU)	
	3.2	Tire size, front	Ø x w (mm)		Ø254×82	
	3.3	Tire size, rear	Ø x w (mm)		Ø102×70(Ø230×80)	
	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)	2836		3936
	4.5	Extended mast height	h4 (mm)	3952		5052
	4.9	Height of tiller in drive position min./ max.	h14 (mm)		1090/1340	
	4.15	Height, lowered	h13 (mm)		64	
	4.19	Overall length	l1 (mm)	2585		2554
	4.20	Length to face of forks	l2 (mm)	1435		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)	2812		2791
	4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)	2856		2828
	4.35	Turning radius	Wa (mm)		1770	
Performance data	5.1	Travel speed, laden/ unladen	km/h		6.0/6.0	
	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		2.6	
	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)		69	

PS 13RM/PS 15RM

Pedestrian Reach Stacker
Capacity 1300/1500 Kg

INTRODUCTION

Compact structure with excellent forward function, vehicles in a narrow space can also be used;

High-performance AC drive system, combined with electric steering unit to enhance whole vehicle's performance and efficiency;With high-quality components, excellent cost performance.

If the vehicle is used in warehousing long distance transporting,optionally foldable pedal is the best choice.

PS 15RM

ADVANTAGES

Reach mast

In comparison with common counterbalance heavy stacker,PS15RM not only have same stability, but also have flexible operation with reach mast in small space.

Fork tilting

Tilting fork makes the pallet stacking work easier and safer,and separate the fork and pallet easier as well.

PS 13RM/PS15RM

Pedestrian Reach Stacker
Capacity 1300/1500 Kg

ADVANTAGES

- Forward function
- AC drive system
- Operators' working will be easier with Electric steering technology
- The large battery capacity extends long time operation needs
- Optional sideshift function
- Optional side-pull battery
- Optional pedal, protective arm, ergonomically foldable pedal

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

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.

Optional foot pedal, arm protection
Optional foot pedal, protective arm, ergonomically foldable pedal and protective arm makes the operation faster and safer.

Optional battery side pull
battery replacement from side design largely reduces the maintenance time for long time and multi-class works.

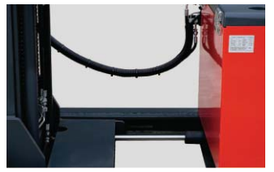
AC drive system
AC drive system increases performance, reducing maintenance costs, improving work efficiency.

Optional foot pedal, arm protection
Optional pedal, protective arm, ergonomically foldablepedal and protective arm makes the operation faster and safer.

fork tilting
Tilting forks ensures safety cargo loading.

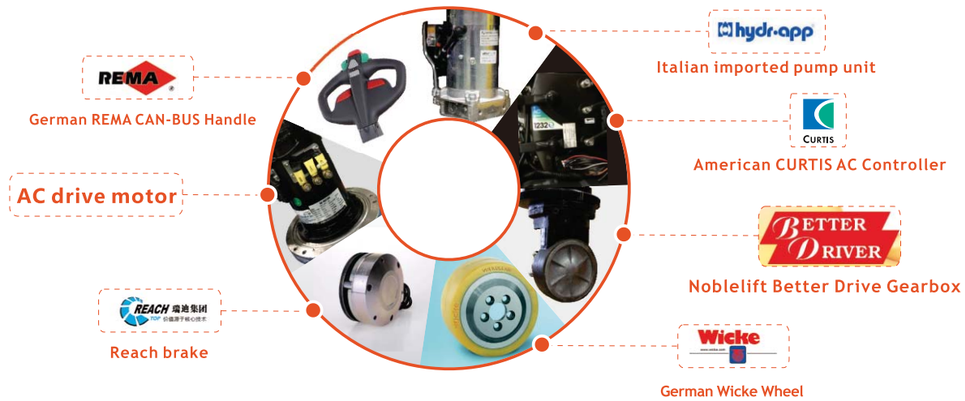
Optional sideshift function
The optional sideshift function allows the forks to move, especially for small space, cargo can be accurately placed on the shelf without moving the vehicle.

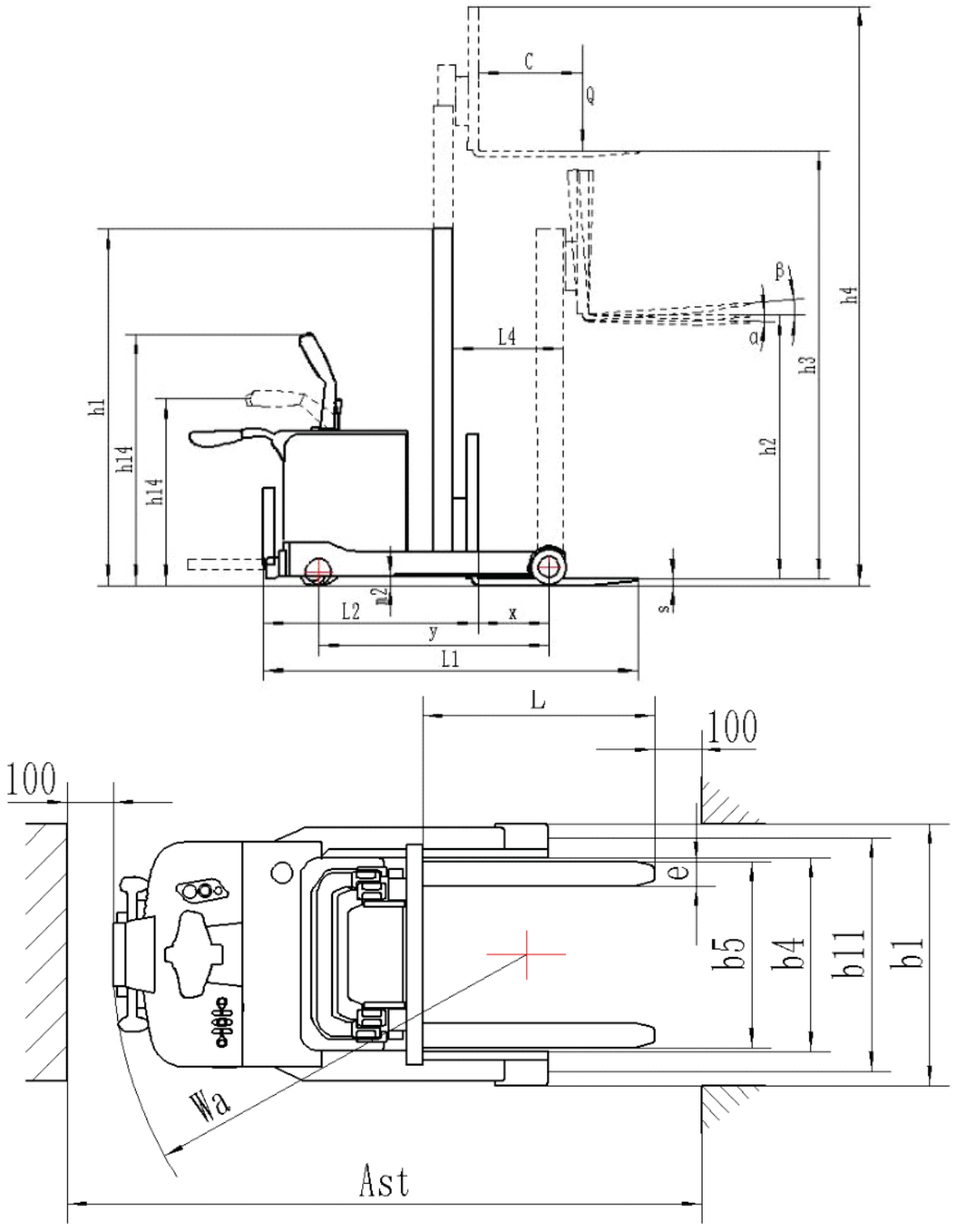
High capacity battery
The large battery capacity extends long time operation needs.



Reach mast
flexible operation is available in a small space.

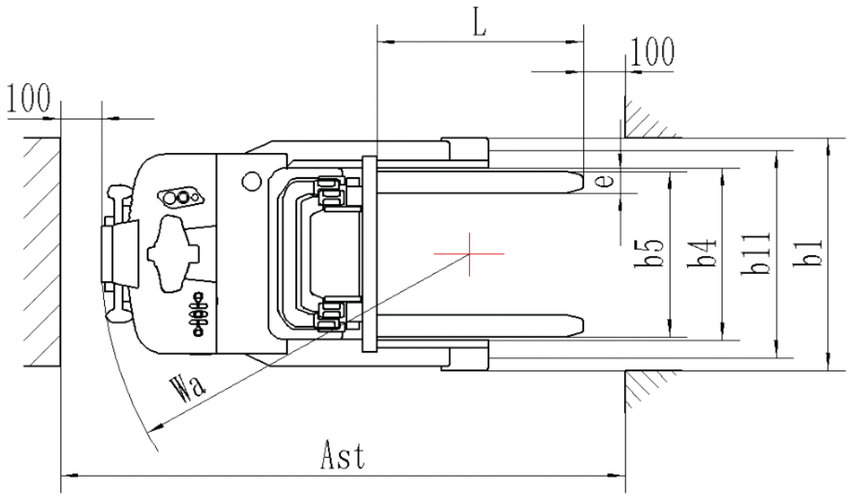
PS 13RM/PS15RM

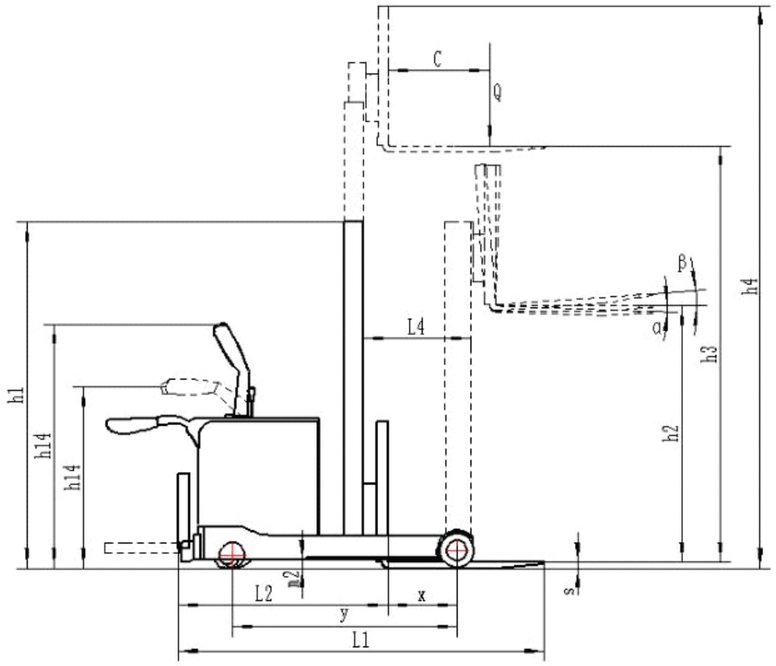




Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.2	Manufacturer`s type designation		PS 13 RM16	PS 13 RM18	PS 13 RM30	PS 13 RM36	PS 13 RM45
	1.3	Drive:electric(battery or mains), diesel, petrol, fuel gas, manual		Battery				
	1.4	Type of operation: hand, pedestrian, standing, seated, order-picker		Pedestrian				
	1.5	Load Capacity / rated load	Q(kg)	1300				
	1.6	Load centre distance	C(mm)	600				
	1.8	Load distance ,centre of drive axle to fork	x(mm)	404				
	1.9	Wheelbase	y(mm)	1368				
Weight	2.1	Service weight	kg	1750	1800	1900	2100	2150
	2.2	Axle loading, laden front/rear	kg	1450/1600	1480/1620	1520/1680	1600/1800	1640/1810
	2.3	Axle loading, unladen front/rear	kg	1320/430	1360/440	1430/470	1550/550	1600/550
Tyres, chassis	3.1	Tyres: solid、rubber, superelastic, pneumatic, polyurethane		Polyurethane(PU)				
	3.2	Tyre size, front	ØxW	Ø250 × 82				
	3.3	Tyre size, rear	ØxW	Ø210 × 85				
	3.4	Additional wheels (dimensions)	ØxW	Ø124 × 60				
	3.5	Wheels, number front/rear(x=driven wheels)		1×+2/2				
	3.6	Track width, front	b10(mm)	680				
	3.7	Track width, rear	b11(mm)	993				
Dimensions	4.1	Mast/fork carriage tilt forward/backward	α/β(°)	2/4				
	4.2	Lowered mast height	h1 (mm)	2196	2396	2096	1796	2096
	4.3	Free lift	h2 (mm)	1600	1800		1200	1500
	4.4	Lift height	h3 (mm)	1600	1800	3000	3600	4500
	4.5	Extended mast height	h4 (mm)	2485	2685	3885	4485	5385
	4.9	Height of tiller in drive position min./ max.	h14(mm)	1034/1415				
	4.15	Lowered height	h13(mm)	50				
	4.19	Overall length	l1 (mm)	2140				
	4.20	Length to face of forks	l2 (mm)	1190				
	4.21	Overall width	b1(mm)	1090				
	4.22	Fork dimensions	s/e/l (mm)	35/100/950(1150)				
	4.25	Width over forks	b5 (mm)	200~760				
	4.26	Distance between supports arms/loading surfaces	b4 (mm)	790				
	4.28	Reach distance	l4(mm)	540				
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	39				
	4.33	Aisle width for pallets 1000X1200 crossways	Ast (mm)	2640				
	4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)	2680				
	4.35	Turning radius	Wa (mm)	1594				
Performance data	5.1	Travel speed, laden/ unladen	km/h	5.0/5.5				
	5.2	Lift speed, laden/ unladen	m/s	0.085/0.112		0.11/0.165		
	5.3	Lowering speed, laden/ unladen	m/s	0.125/0.08		0.1/0.095		
	5.8	Max. gradient performance, laden/ unladen	%	5/8				
	5.10	Service brake		Electromagnetic				
Electric- engine	6.1	Drive motor rating s2 60min	kw	1.6				
	6.2	Lift motor rating at s3 15%	kw	2.2		3.0		
	6.3	Battery acc. to DIN, no		3PzS		4PzS		
	6.4	Battery voltage, nominal capacity	V/Ah	24/270		24/400		
Additional data	8.1	Type of drive control		MOSFET Control				
	8.4	sound level at driver`s ear acc.to EN 12053	dB(A)	67				





Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.2	Manufacturer`s type designation		PS15RM16	PS15RM18	PS15RM30	PS15RM36	PS15RM45
	1.3	Drive:electric(battery or mains)、diesel、petrol、fuel gas、manual		Battery				
	1.4	Type of operation: hand, pedestrian, standing, seated, order-picker		Pedestrian				
	1.5	Load Capacity / rated load	Q(kg)	1500				
	1.6	Load centre distance	c(mm)	600				
	1.8	Load distance ,centre of drive axle to fork	x(mm)	465				
	1.9	Wheelbase	Y(mm)	1500				
Weight	2.1	Service weight	kg	1800	1850	1950	2150	2200
	2.2	Axle loading, laden front/rear	kg	1300/2000	1330/2020	1370/2080	1470/2180	1500/2200
	2.3	Axle loading, unladen front/rear	kg	1280/520	1300/550	1350/600	1450/700	1480/720
Tyres, chassis	3.1	Tyres: solid、rubber, superelastic, pneumatic, polyurethane		Polyurethane				
	3.2	Tyre size, front	Øx w (mm)	Φ250x82				
	3.3	Tyre size, rear	Øx w (mm)	Φ230x100				
	3.4	Additional wheels (dimensions)	Øx w (mm)	Φ124x60				
	3.5	Wheels, number front/rear (x=driven wheels)		1x+2/2				
	3.6	Track width, front	b10mm	680				
	3.7	Track width, rear	b11 (mm)	988				
	4.1	Mast/fork carriage tilt forward/backward	α/β(°)	2/4				
Dimensions	4.2	Lowered mast height	h1 (mm)	2196	2396	2096	1796	2096
	4.3	Free lift	h2 (mm)	1600	1800	-	1200	1500
	4.4	Lift height	h3 (mm)	1600	1800	3000	3600	4500
	4.5	Extended mast height	h4 (mm)	2485	2685	3885	4485	5385
	4.9	Height of tiller in drive position min./ max.	h14mm	1034/1415				
	4.15	Lowered height	h13mm	50				
	4.19	Overall length	l1mm	2210				
	4.20	Length to face of forks	l2mm	1260				
	4.21	Overall width	b1mm	1090				
	4.22	Fork dimensions	s/e/l (mm)	35/100/950(1150)				
	4.25	Width over forks	b5 (mm)	220/760				
	4.26	Distance between supports arms/loading surfaces	b4(mm)	790				
	4.28	Reach distance	L4(mm)	610				
	4.32	Ground clearance, centre of wheelbase	m2(mm)	39				
	4.33	Aisle width for pallets 1000X1200 crossways	Ast(mm)	2730				
	4.34	Aisle width for pallets 800X1200 lengthways	Ast(mm)	2760				
	4.35	Turning radius	Wa(mm)	1640				
Performance data	5.1	Travel speed, laden/ unladen	km/h	5.0/5.5				
	5.2	Lift speed, laden/ unladen	m/s	0.11/0.165				
	5.3	Lowering speed, laden/ unladen	m/s	0.1/0.095				
	5.8	Max. gradient performance, laden/ unladen	%	5/8				
	5.10	Service brake		Electromagnetic				
Electric- engine	6.1	Drive motor rating s2 60min	kW	1.6				
	6.2	Lift motor rating at s3 15%	kW	3.0				
	6.3	Battery acc. to DIN, no		3PzS			4PzS	
	6.4	Battery voltage, nominal capacity		24/270			24/400	
	6.6	Energy consumption acc. to VDI cycle	KWh/h	2.47				
Additional data	8.1	Type of drive control		MOSFET Control				
	8.4	sound level at driver`s ear acc.to EN 12053	dB(A)	67				

PS13/15RM PLUS

The Most Versatile Stacker

INTRODUCTION

Compact structure with excellent forward function, vehicles in a narrow space can be used;

Faster + High efficiency with German motor!
Upgraded speed of 8km/h for Ride-on Mode

High-performance AC drive system, combined with electric steering unit to enhance whole vehicle's performance and efficiency; With high-quality components, excellent cost performance.

If the vehicle is used in warehousing long distance transporting, optionally foldable pedal is the best choice.

ADVANTAGES

- Straddle leg design
- Forward function
- AC drive system
- Operator' Working will be easier with Electric Steering technology
- The large battery capacity extends long time operation needs
- Optional sideshift function
- Optional side-pull battery
- Optional pedal, protective arm, ergonomically foldable pedal

Optional special configuration for cold storage

Optional lithium battery configuration

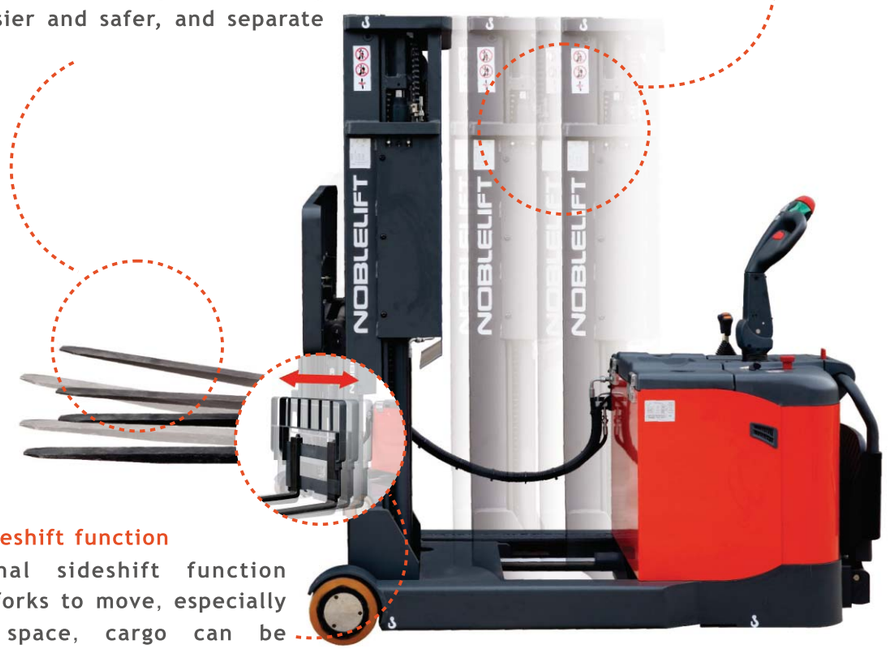
8km/h

Reach mast

In comparison with common counterbalance heavy stacker, PS13/15RM PLUS not only have same stability, but also have flexible

Fork tilting

Tilting fork makes the pallet stacking work easier and safer, and separate



Optional sideshift function

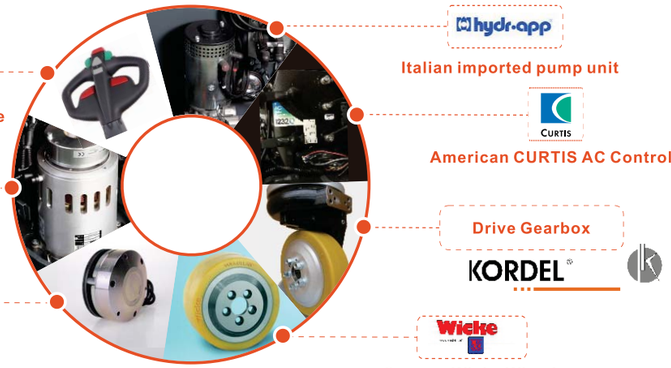
The optional sideshift function allows the forks to move, especially for small space, cargo can be accurately placed on the shelf

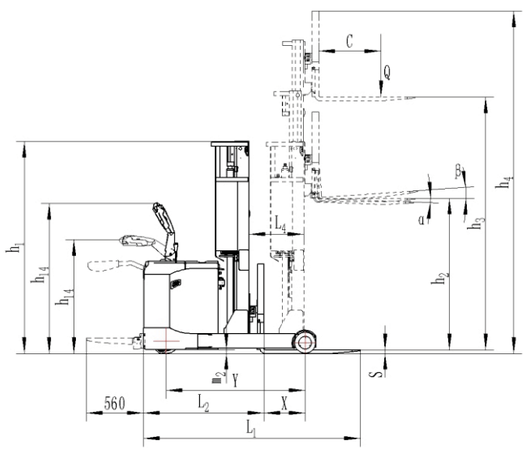
Straddle Leg

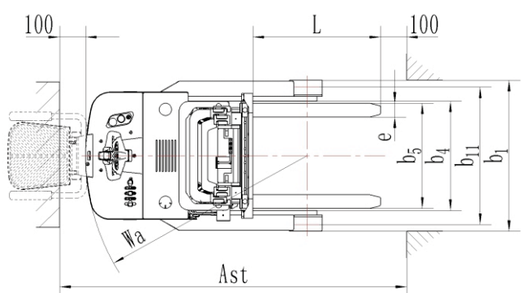
Direct entry of 800x1220mm pallet with upgraded design of the straddle 880mm inner width.

PS13/15RM PLUS

Top brand key componnets







Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.2	Manufacturer`s type designation		PS13RM16PLUS	PS13RM30PLUS	PS13RM48PLUS	PS15RM16PLUS	PS15RM30PLUS	PS15RM48PLUS
	1.3	Power(battery ,diesel,petrol gas,manual)			Battery			Battery	
	1.4	Operator type			Pedestrian			Pedestrian	
	1.5	Load Capacity / rated load	Q(kg)		1300			1500	
	1.6	Load centre distance	C(mm)		600			600	
	1.8	Load distance ,centre of drive axle to fork	X(mm)		415			485	
	1.9	Wheelbase	Y(mm)		1350			1500	
Weight	2.1	Service weight	kg	1750	1900	2200	1800	1950	2250
Tyres, chassis	3.1	Tires			Polyurethane (PU)			Polyurethane (PU)	
	3.2	Tire size, front	mm		ϕ250X82			ϕ250X82	
	3.3	Tire size, rear	mm		ϕ210X85			ϕ230X100	
	3.4	Steering wheel size	mm		ϕ124X60			ϕ124X60	
	3.5	Wheels, number front/rear(x=driven wheels)			1X+2/2			1X+2/2	
	3.6	Tread, front	b10(mm)		680			680	
	3.7	Tread, rear	b11(mm)		1085			1085	
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β (°)		2/4			2/4	
	4.2	Lowered mast height	h1(mm)	2196	2096	2196	2196	2096	2196
	4.3	Free Lift height	h2(mm)	1600	——	1600	1600	——	1600
	4.4	Lift	h3(mm)	1600	3000	4800	1600	3000	4800
	4.5	Extended mast height	h4(mm)	2485	3885	5685	2485	3885	5685
	4.9	Height of tiller in drive position min./ max.	h14(mm)		1030/1415			1030/1415	
	4.15	Height, lowered	h15(mm)		50			50	
	4.19	Overall length	l1(mm)		2080			2160	
	4.20	Length to face of forks	l2(mm)		1160			1240	
	4.21	Overall width	b2(mm)		1180			1184	
	4.22	Fork dimensions	s/e/l(mm)		35/100/920(1070)			35/100/920(1070)	
	4.25	Distance between fork- arms	b5(mm)		220-760			220-760	
	4.26	Distance between supporting arm and load side	b4(mm)		880			880	
	4.28	Reach distance	l4(mm)		545			630	
	4.32	Ground clearance, centre of wheelbase	m2(mm)		40			40	
	4.33	Aisle width for pallets 1000X1200 crossways	Ast(mm)		2600[1]			2710[1]	
	4.34	Aisle width for pallets 800X1200 lengthways	Ast(mm)		2650[1]			2740[1]	
	4.35	Turning radius	Wa(mm)		1570[1]			1720[1]	
Performance data	5.1	Travel speed, laden/ unladen	km/h		5.5/6.0-8.0/8.0			5.5/6.0-8.0/8.0	
	5.2	Lift speed, laden/ unladen	m/s	0.085/0.122		0.11/0.165		0.11/0.165	
	5.3	Lowering speed, laden/ unladen	m/s	0.125/0.08		0.11/0.10		0.11/0.10	
	5.8	Max. gradeability, laden/ unladen	%		5/8			5/8	
	5.10	Service brake			Electromagnetic			Electromagnetic	
Electric- engine	6.1	Drive motor rating	kW		2.6			2.6	
	6.2	Lift motor rating	kW	2.2		3.0		3.0	
	6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C, no		3PzS		4PzS	3PzS		4PzS
	6.4	Battery voltage, nominal capacity	V/Ah	24 / 270		24 / 400	24 / 270		24 / 400
Additional data	8.1	Type of drive control			AC-Speed Control			AC-Speed Control	
	8.4	Sound level at driver`s ear acc.to EN 12053	dB(A)		67			67	

PS 15CB

Counter-balanced Stacker

Pedestrian Reach Stacker Capacity 1300/1500 Kg

INTRODUCTION

- Easy and comfortable operation with high efficiency.
- High-performance AC drive system, combined with electric power steering unit to enhance the stacker's performance and efficiency, all controls done via the control handle, easy and efficient.
- With high-quality components, excellent costperformance.
- If the vehicle is used in warehousing long distance transporting, optionally foldable pedal is the best choice.

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.

Optional battery side pull

Battery replacement from side design largely reduces the maintenance time for long time and multi-class works.

High capacity battery

The large battery capacity extends long time operation needs.

Optional foot pedal, arm protection

Optional pedal, protective arm, ergonomically foldbalepedal and protective arm makes the operation faster and safer.

AC drive system

AC drive system increases performance, reducing maintenance costs, improving work efficiency.

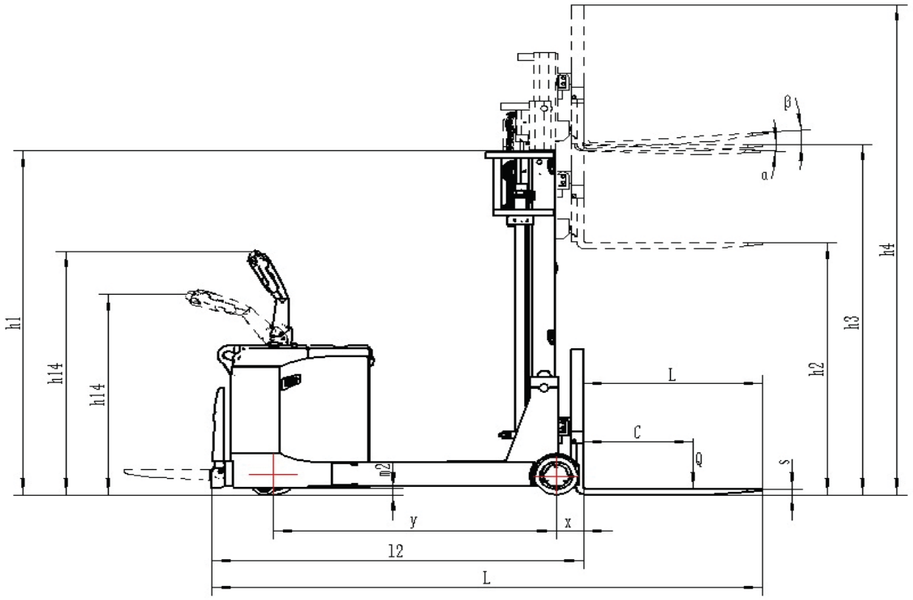
Electric steering

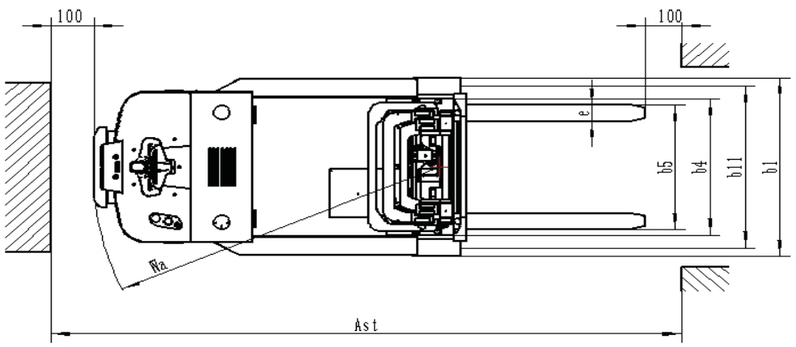
Operator' working will be easier with electric steering technology.

fork tilting

Tilting forks ensures safety cargo loading.

PS15CB





Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.2	Manufacturer`s type designation		PS15CB16	PS15CB18	PS15CB30	PS15CB36	PS15CB45
	1.3	Drive:electric(battery or mains)、diesel、petrol、fuel gas、manual				Battery		
	1.4	Type of operation: hand, pedestrian, standing, seated, order-picker				Pedestrian		
	1.5	Load Capacity / rated load	Q(kg)			1500		
	1.6	Load centre distance	c(mm)			600		
	1.8	Load distance ,centre of drive axle to fork	x(mm)			145		
	1.9	Wheelbase	Y(mm)			1500		
Weight	2.1	Service weight	kg	1850	1900	2050	2250	2300
	2.2	Axle loading, laden front/rear	kg	400/2950	420/2980	450/3100	530/3220	550/3250
	2.3	Axle loading, unladen front/rear	kg	1120/730	1150/750	1220/830	1320/930	1350/950
Tyres, chassis	3.1	Tyres: solid、rubber, superelastic, pneumatic, polyurethane				Polyurethane		
	3.2	Tyre size, front	Øx w (mm)			Φ250x82		
	3.3	Tyre size, rear	Øx w (mm)			Φ230x100		
	3.4	Additional wheels (dimensions)	Øx w (mm)			Φ124x60		
	3.5	Wheels, number front/rear (x=driven wheels)				1x+2/2		
	3.6	Track width, front	b10(mm)			680		
	3.7	Track width, rear	b11 (mm)			988		
	4.2	Mast/fork carriage tilt forward/backward	α/β(°)			2/4		
Dimensions	4.3	Lowered mast height	h1 (mm)	2196	2396	2096	1796	2096
	4.4	Free lift	h2 (mm)	1600	1800	-	1200	1500
	4.5	Lift height	h3 (mm)	1600	1800	3000	3600	4500
	4.9	Extended mast height	h4 (mm)	2485	2685	3885	4485	5385
	4.15	Height of tiller in drive position min./ max.	h14(mm)			1034/1415		
	4.19	Lowered height	h13(mm)			50		
	4.20	Overall length	l1(mm)			2820		
	4.21	Length to face of forks	l2(mm)			1870		
	4.22	Overall width	b1(mm)			1090		
	4.25	Fork dimensions	s/e/l (mm)			35/100/950(1150)		
	4.32	Width over forks	b5 (mm)			220/760		
	4.33	Distance between supports arms/loading surfaces	b4(mm)			790		
	4.34	Ground clearance,centre of wheelbase	m2(mm)			39		
	4.35	Minimum aisle width	Ast(mm)			3080		
	5.1	Turning radius	Wa(mm)			1640		
Performance data	5.2	Travel speed, laden/ unladen	km/h			5.0/5.5		
	5.3	Lift speed, laden/ unladen	m/s			0.11/0.165		
	5.8	Lowering speed, laden/ unladen	m/s			0.1/0.095		
	5.10	Max. gradient performance, laden/ unladen	%			5/8		
	6.1	Service brake				Electromagnetic		
	6.2							
Electric- engine	6.3	Drive motor rating s2 60min	kW			1.6		
	6.4	Lift motor rating at s3 15%	kW			3.0		
	6.5	Battery acc. to DIN, no			3PzS		4PzS	
	6.6	Battery voltage, nominal capacity	V/Ah		24/270		24/400	
	8.1	Energy consumption acc. to VDI cycle	KWh/h			1.88		
Additional data		Type of drive control				MOSFET Control		
		sound level at driver`s ear acc.to EN 12053	dB(A)			67		

RT 15ST

The Stand-on Reach Stacker Designed for Most Demanding Applications

INTRODUCTION

RT15ST Series Reach stacker is an ideal option for high capacity and high lift height cargo storage application. Rated load capacity of 3300lbs, lifting height up to 315inch. It has the advantages of the integrated reach forward mast and small turning radius, which can ignore the barriers of the bottom shelf. It is applicable to large-scale vertical chemical plants, warehouses, supermarkets, docks and places for goods storage.

ADVANTAGES

- **Regenerative braking**

  If brake when driving, the motor automatically power off to maximize reduce power consumption and extend battery working time; The use of regenerative braking technology minimize the wear of braking efficiently, to ensure the brake safety and efficiency of energy recovery.

- **Advanced configuration**

  Integrated AC system, KDS motor, Zapi power steering and control systems with high-precision gearbox to ensure a flexible steering and high-quality driving performance.

- **Hydraulic system**

  International advanced connectors, hoses and abrasion resistance, high temperature resistance, high flexible import seals, reasonable layout of hard and soft tube to ensure that the whole hydraulic system cooling, sealing, durability, safety and efficiency.

- **Comfortable and beautiful design**

  Modern and new design in Modern design of control pedal, and the damping pedal with ergonomic design ensures comfortable driving.

- **Mast system**

  The mast has the reach forward function which allows the truck to store the goods without moving of the truck itself, which is convenient and safe; High quality imported C-shape mast ensures that the vehicle load capacity.

- **Emergency button**

  Safe and convenient configuration of the emergency button, emergency one-time cut off all energy, which greatly increase safety.

- **Safety**

  The mast piping system with safe speed limit valve, effectively control the rate of lowering of goods. High standards of craftsmanship, aterials and quality ensures better performance in harsh conditions.

- **Buffer system for fork lowering and mast forward/backward**

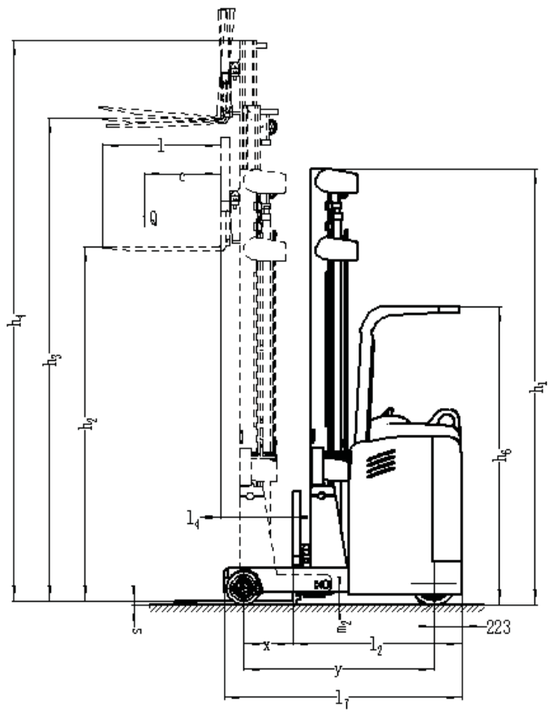
  Buffer system for fork lowering and mast forward / backward increase vehicle safety and operating comfort.

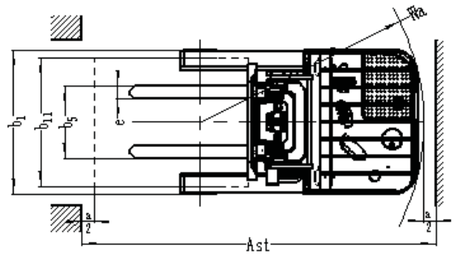
- **Electronic control functions**

  The electrical energy, timing, fault display is easy for operator to understand the vehicle condition and to have maintenance. The surface of electrical components is water and dust proof, the design of fully enclosed thermal of the central control unit to make the circuit more simple and reliable.

Mast table RT 15ST

Designation	Lowered mast height h1 (mm)	Free lift height h2 (mm)	Lift height h3 (mm)	Extended mast height h4 (mm)
		RT 15ST		
Two-stage mast	1830	135	2500	3365
	1930	135	2700	3565
	2080	135	3000	3865
	2230	135	3300	4165
	2380	135	3600	4465
	2580	135	4000	4865
	2830	135	4500	5365
Three-stage mast FFL (Full-Free-Lift)	2230	1630	4500	5365
	2398	1795	5000	5865
	2498	1895	5300	6165
	2565	1960	5500	6365
	2665	2060	5800	6665
	2730	2130	6000	6865
	2898	2295	6500	7365
	3065	2460	7000	7865
	3230	2630	7500	8365
	3398	2795	8000	8865





Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.2	Manufacturer' type designation		RT15ST
	1.3	Drive(electric,diesel,petrol,gas,main electric)		Battery
	1.4	Type of operation(hand,pedestrian,,stand on,rider picker)		Stand on
	1.5	Load capacity/rated load	Q (t)	1.5
	1.6	Load center distance	C (mm)	500
	1.8	Load distance,cenre of drive axle to fork	X(mm)	380
	1.9	Wheelbase	y (mm)	1482
Weight	2.1	Service weight incl.battery	kg	3630
	2.3	Axle loading,unladen front/rear	kg	2260/1370
	2.4	Axle loading,fork advanced,laden front/rear	kg	840/4290
	2.5	Axle loading,fork retraced,laden front/rear	kg	1960/3170
Tyres, chassis	3.1	Tyres(solid rubber,superelastic,pneumatic,polyurethane)		Polyurethane
	3.2	Tyres size,front	ØxW(mm)	343×140
	3.3	Tyres size,rear	ØxW(mm)	267×106
	3.5	Wheels,number front/rear(x=driven wheels)		2/1x+2
	3.7	Track width,rear	b11(mm)	1010/660
Dimensions	4.1	Mast/fork carriage tilt forward/backward	α/β (°)	3/5
	4.2	Lowered mast height	h1(mm)	3398
	4.3	Free lift	h2(mm)	2795
	4.4	Lift height	h3(mm)	8000
	4.5	Extended mast height	h4(mm)	8865
	4.7	Overhead load guard (cab) height	h6(mm)	2330
	4.19	Overall length	l1(mm)	2246
	4.20	Length to face of forks	l2(mm)	1326
	4.21	Overall width	b1(mm)	1130
	4.22	Fork dimensions	s/e/l(mm)	35/100/920
	4.25	Width over forks	b5(mm)	200/760
	4.28	Reath distance	l4(mm)	560
	4.31	Ground clearance	m1(mm)	80
	4.34	Aisle width for pallets 800X1000 crossways	Ast(mm)	2695
	4.35	Turning radius	Wa(mm)	1750
	4.37	Length across wheel arms	l7(mm)	1855
Performance data	5.1	Travel speed,laden/unladen	km/h	9.5/9.5
	5.2	Lift speed,laden/unladen	m/s	0.28/0.32
	5.3	Lowering speed,laden/unladen	m/s	0.35/0.31
	5.4	Reath speedm,laden/unladen	m/s	0.09/0.12
	5.8	Max.gradient performance,laden/unladen	%	10/15
	5.10	Service brake		Electromagnetic
Electric- engine	6.1	Drive motor rating S2 60 min	kW	5.5
	6.2	Lift motor rating at S3 15%	kW	8.6
	6.3	Battery acc.to DIN 43531/35/36 A,B,C,no		A,4Pzs
	6.4	Battery voltage,nominal capacity K5	V/Ah	48/360
	6.5	Battery weight	kg	680
Additional data	8.1	Type of drive control		Zapi
	8.2	Operating pressure for attachments	(bar)	110
	8.3	Oil volume for attachments	(l/min)	40
	8.4	Sound level at driver's ear according to EN 12053	dB/(A)	< 70

RT Series

NEW!

RT Series Sit-on Reach Truck with capacity 1400/1600/2000 Kg

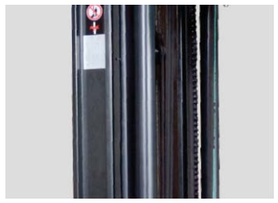
RT series Sit-on Reach Truck is a high performance truck with high efficiency and excellent safety. It is design to cope with the most demanding stacking operations for goods between 1400kg and 2000kg with maximum lift height up to 8m or 10.5m. Equipped with intelligent system and integrated with safety components to ensure the most efficient operations in big warehouses.

- Ergonomic design
- Easy side-battery replacement
- Robust & reliable design
- Capacity 1400-2000kg
- Easy maintenance
- High efficiency
- Low noise

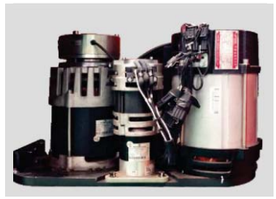
Advantages:

- Smart and easy side-battery replacement

  Excellent ergonomic design
- High stability without loss-of-load until 5.3m
- Easy and efficient maintenance
- Mast buffering for lowering for safety and reliability
- Low energy consumption with high performance
- Top brand key components ensures excellent performance
- Fast speed of travelling and lifting/lowering
- Extremely small turning radius and aisle width



Germany-imported HOESCH channel steel mast for excellent stability.



German Schabmuller Drive motor and steering motor.

American KDS lifting pump for smooth and safe lifting and lowering .

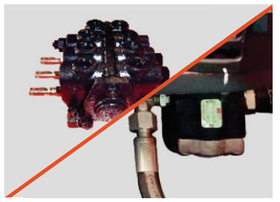
Top brand key components

100% AC system with electric power steering, top brand key components ensures high performance and stability, easy operation and maintenance .

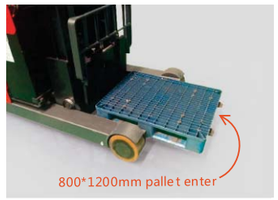
Germany-imported HOESCH channel steel mast for excellent stability.
American Curtis Controller for smooth and smart control with diagnosable signals.
German Schabmuller Drive motor and steering motor.
American KDS lifting pump for smooth and safe lifting and lowering.
Germany -imported ZF gear box for excellent acceleration.
Japanese Shimadzu Multi Control Valve for accurate and safe control of the hydraulics.

American Curtis Controller for smooth and smart control with diagnosable signals.

Germany -imported ZF gear box for excellent acceleration.



Japanese Shimadzu Multi Control Valve for accurate and safe control of the hydraulics.



High Efficiency

The inner diameter of the legs allows the 800x1200mm pallet enter, no need to reach forward to lower the pallet to the ground

High capacity battery with low energy consumption

The inner diameter of the legs allows the 800x1200mm pallet enter, no need to reach forward to lower the pallet to the ground DIN Standard High Capacity battery optional 360/40/480/600AH, low energy consumption with approximately 2.52 kwh/h, 20% energy saving comparing to competitors

Rino Series

Ergonomic design

Comfortable adjustable seat allows the operator to find the best position and reduce fatigue for long time operation, overhead guard gives operator protection as well as

Mast table RT series

Designation	Lift height h3 mm	Free lift height h2 mm	Lowered mast height h1 mm	Extended mast height h4 mm
	RT20			
Two-stage mast	2500	140	1830	3415
	2700	140	1930	3615
	3000	140	2080	3915
	3300	140	2230	4215
	3600	140	2380	4515
	4000	140	2580	4915
	4500	140	2830	5415
Three-stage mast FFL	4500	1254	2167	5415
	5000	1420	2335	5915
	5300	1520	2435	6215
	5500	1585	2502	6415
	5800	1685	2602	6715
	6000	1755	2667	6915
	6500	1920	2835	7415
	7000	2095	2992	7915
	7500	2255	3167	8415
	8000	2420	3335	8915
	8500	2585	3502	9415
	9000	2755	3667	9915
	9500	2920	3835	10415
	10000	3085	4002	10915
	10500	3255	4167	11415

Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.1	Brand		Noblelift	Noblelift	Noblelift
	1.2	Manufacturer' type designation		RT20	RT16	RT14
	1.3	Drive(electric,diesel,petrol,gas,main electric)		Battery	Battery	Battery
	1.4	Type of operation(hand,pedestrian,stand on,rider picker)		Seated	Seated	Seated
	1.5	Load capacity/rated load	Q (t)	2.0	1.6	1.4
	1.6	Load center distance	c (mm)	600	600	600
	1.8	Load distance,cenre of drive axle to fork	x (mm)	180	180	180
	1.9	Wheelbase	y (mm)	1500	1400	1350
Weight	2.1	Service weight incl.battery	kg	3400	3000	2900
	2.3	Axle loading,unladen front/rear	kg	2200/1200		
	2.4	Axle loading,fork advanced,laden front/rear	kg	600/4800		
	2.5	Axle loading,fork retraced,laden front/rear	kg	1900/3500		
Tyres, chassis	3.1	Tyres(solid rubber,superelastic,pneumatic,polyurethane)		Polyurethane (PU)	Polyurethane (PU)	Polyurethane (PU)
	3.2	Tyres size,front	¢xW (mm)	313×125	313×125	313×125
	3.3	Tyres size,rear	¢xW (mm)	267×135	267×135	267×135
	3.5	Wheels,number rear /front (x=driven wheels)		2/1x	2/1x	2/1x
	3.7	Track width,rear/front	b11 (mm)	1124	1124	1124
Dimensions	4.1	Mast/fork carriage tilt forward/backward	α/β (°)	2/4	2/4	2/4
	4.2	Lowered mast height	h1 (mm)	2335	2335	2335
	4.3	Free lift	h2 (mm)	1420	1420	1420
	4.4	Lift height	h3 (mm)	5000	5000	5000
	4.5	Extended mast height	h4 (mm)	5915	5915	5915
	4.7	Overhead load guard(cab)height	h6 (mm)	2160	2160	2160
	4.19	Overall length	l1(mm)	2350	2285	2260
	4.20	Length to face of forks	l2 (mm)	1280	1215	1190
	4.21	Overall width	b1 (mm)	1260	1260	1260
	4.22	Fork dimensions	s/e/l (mm)	40/120/1070	35/100/1070	35/100/1070
	4.25	Width over forks (min/max)	b5 (mm)	240/760	200/760	200/760
	4.28	Reath distance	l4 (mm)	630	600	570
	4.31	Ground clearance	m1 (mm)	75	75	75
	4.34	Aisle width for pallets 800X1000 cossways	Ast (mm)	2790	2730	2700
	4.35	Turning radius	Wa (mm)	1750	1655	1600
	4.37	Length across wheel arms	l7 (mm)	1865	1765	1700
Performance data	5.1	Travel speed,laden/unladen	km/h	10.5/10.5	10.5/10.5	10.5/10.5
	5.2	Lift speed,laden/unladen	m/s	0.27/0.38	0.27/0.38	0.27/0.38
	5.3	Lowering speed,laden/unladen	m/s	0.35/0.35	0.35/0.35	0.35/0.35
	5.4	Reath speedm,laden/unladen	m/s	0.1/0.1	0.1/0.1	0.1/0.1
	5.8	Max.gradient performance,laden/unladen	%	10/15	10/15	10/15
	5.10	Service brake		Electric	Electric	Electric
Electric- engine	6.1	Drive motor rating S2 60 min	kW	6.4	6.4	6.4
	6.2	Lift motor rating at S3 15%	kW	12.5	12.5	12.5
	6.3	Battery acc.to DIN 43531/35/36 A,B,C,no		A.4Pzs	A.4Pzs	A.4Pzs
	6.4	Battery voltage,nominal capacity K5	V/Ah	48/480-600	48/360-450	48/360-450
	6.5	Battery weight	kg	939	750	750
Additional data	8.1	Type of drive control		AC-Speed Control	AC-Speed Control	AC-Speed Control
	8.2	Operating pressure for attachments	(bar)	150	150	150
	8.3	Oil volume for attachments	(l/min)	38	35	35
	8.4	Sound level at driver's ear according to EN 12053	dB(A)	<70	<70	<70