

Standard and Optional Equipment

Standard Equipment

- Ergonomic 45° driving posture (SP concept)
- Linde intelligent suspended system for reliable and safety driving
- All wheel braking
- Highly functional and spacious work station incorporating storage compartments and A4 paper clip
- A rugged chassis, padded waist and neck support and cushioned platform, for optimum comfort and safety
- Overhead guard support for improved operator protection and enhanced visibility to the load
- Dead-man footswitch traction interlock
- Protective polycarbonate screen between control console and mast
- Linde Load Control (LLC) for precise lifting/lowering, reaching, tilting
- 180° Linde Rheological Steering (LRS) with adjustable steering torque

- Linde Digital Control system (LDC) incorporating CAN bus technology
- Comprehensive digital instrument display
- Creep speed mode
- Five independent braking systems
- Four point stability with intelligent castor wheel suspension
- Electric horn
- Emergency isolator
- Maintenance-free AC traction and lift motors
- Linde Curve Drive Control
- Polyurethane drive and load wheel tyres
- Fixed mast with tilting fork carriage
- Battery locking interlock
- Vertical battery change

Optional Equipment

- Alternative lift heights
- Alternative fork lengths
- Intergrated side shift
- Load backrest
- Fork soft landing
- Polycarbonate protection on overhead guard
- Panoramic mirror

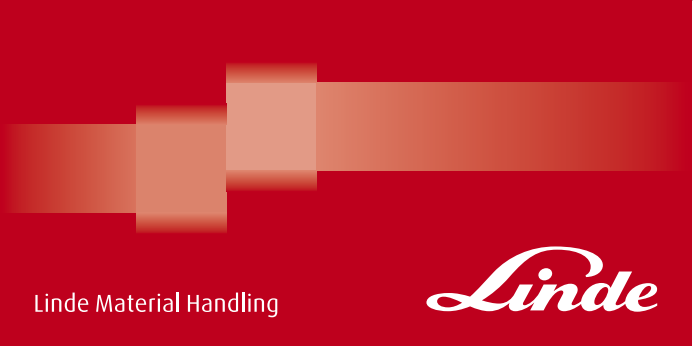
- Working lamps
- Flashing beacon
- Audible warning for forks leading & trailing
- Battery on rollers for rapid side battery change
- Battery roller stand
- Cold store protection
- Alternative colour schemes

Other Options Available on Request



Reach Truck
R14 SP, R16 SP, R18 SP
1400,1600,1800 kg

Series1123-02



Safety

The superbly ergonomic 45° driving position (SP concept) enables the operator to travel in either direction without strain. Full protection is provided by the contoured chassis. Traction and hydraulic functions are automatically isolated when operator steps off. Excellent visibility is achieved with the clearview mast and overhead guard supports behind the operator which gives additional unique driver protection. Automatic speed reduction with Linde Curve Drive Control occurs when cornering.

Performance

Impressive traction and hydraulic performance is granted by advanced, AC maintenance-free motors. Linde Rheological Steering (LRS) provides variable steering torque for efficient, effortless manoeuvring and Linde Load Control (LLC), enables simultaneous lift and travel.

Comfort

A perfect, intuitive interface between operator and truck is ensured with the ergonomic 45° driving posture, padded back and neck support, a spacious, cushioned compartment and finger-tip controls. A comprehensive instrument display, A4 paper clip and bottle holder are also standard.

Reliability

Designed using finite element methods (FEM) and stringently tested for CE certification. The rugged construction and components provide a low centre of gravity for excellent stability, durability and high residual capacities. Hydraulic hoses and valves are protected and electronics are fully sealed against dust and moisture ingress.

Service

Efficiency at work, efficiency in servicing. Maintenance-free AC motors and high quality components enable 1000 hours operation between service intervals. Integral diagnostics provide rapid diagnosis for maximum up-time and adjustable performance parameters offer maximum versatility.

Features

Superb working environment

- SP concept with excellent view of environment when driving in either travelling directions
- The driver's body is fully protected within the truck contours
- Padded waist, neck/head and arm supports

Manoeuvrability

- Contoured chassis and smooth, electric steering ensure effortless and highly efficient manoeuvrability



Braking systems

- Automatic regenerative braking when accelerator lever is released
- Automatic hold-on brake
- Parking brake activated by pressing button on the panel
- Emergency brake activated by releasing foot switch interlock
- Emergency isolator

Stability

- Chassis designed and built for maximum strength and durability
- The truck has passed stringent CE certification tests
- Durable materials and components provide low centre of gravity for excellent stability and high residual capacities

Mast

- Clearview fixed mast
- Tilting fork carriage for optimum stability



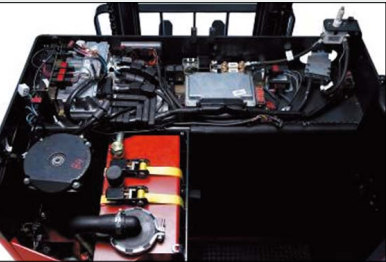
Precise

- Assured manoeuvring with Linde Digital Control system (LDC)
- Precise load handling with Linde Load Control (LLC)
- Responsive progressive and adjustable electric steering (LRS)
- Digital instrument display for instant readout of truck status
- Excellent visibility of load and surrounding environment



Batteries

- Large capacity battery
- Rapid and easy battery change for multi-shift applications



Servicing

- Maintenance-free AC motors
- Configurable Linde Digital Control System
- Integral diagnostic technology
- Easy service access
- 1,000 operating hours between services



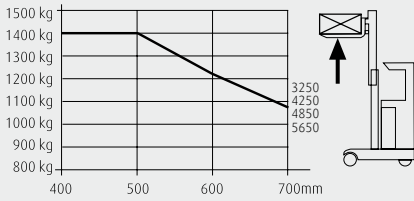
"Subject to modification in the interests of progress, illustration and technical details not binding for actual constructions and may show the optional equipments."

Technical Data

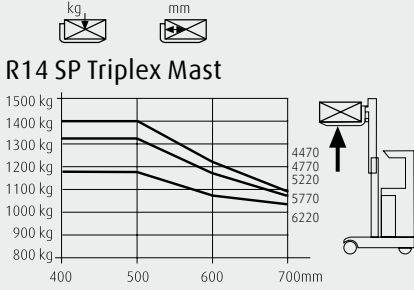
Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE
	1.2	Model designation		R14SP	R16SP	R18SP
	1.3	Power unit		Battery	Battery	Battery
	1.4	Operation		Stand on	Stand on	Stand on
	1.5	Load capacity	Q (kg)	1400 ¹⁾	1600 ¹⁾	1800 ¹⁾
Weights	1.6	Load centre	c (mm)	500/600	500/600	500/600
	1.8	Axle centre to fork face	x (mm)	357	431	431
	1.9	Wheelbase	y (mm)	1275	1425	1425
	2.1	Service weight	kg	2320 ²⁾	2595 ²⁾	2595 ²⁾
Wheels	2.3	Axle load without load, front (drive)/rear (load)	kg	1535/785 ²⁾	1725/870 ²⁾	1725/870 ²⁾
	2.4	Axle load, fork outreached with load, front (drive)/rear (load)	kg	475/3240 ²⁾	630/3580 ²⁾	575/3815 ²⁾
	2.5	Axle load, fork retracted with load, front (drive)/rear (load)	kg	1355/2360 ²⁾	1595/2615 ²⁾	1620/2770 ²⁾
	3.1	Tyres, front (drive)/rear (load) C=cushion rubber, P=polyurethane		PU/PU	PU/PU	PU/PU
	3.2	Tyre size, front (drive) wheel	mm	343x135	343x135	343x135
Dimensions	3.3	Tyre size, rear (load) wheel	mm	250x80	250x80	250x80
	3.5	Wheels, number front (drive)/rear (load) (x=driven)		1x+1/2	1x+1/2	1x+1/2
	3.6	Track width, front (drive)	b10 (mm)	632	632	632
	3.7	Track width, rear (load)	b11 (mm)	1021	1021	1021
	4.1	Mast/fork carriage tilt, forward/backward	α/β (°)	2.0/5.0	2.0/5.0	2.0/5.0
	4.2	Height of mast, lowered	h1 (mm)	2187	2187	2187
	4.3	Free lift	h2 (mm)	150	150	150
	4.4	Lift	h3 (mm)	3250 ³⁾	3250 ³⁾	3250 ³⁾
	4.5	Height of mast, extended	h4 (mm)	3945	3945	3945
	4.7	Height of overhead guard (cabin)	h6 (mm)	2205	2205	2205
	4.10	Height of reach legs	h8 (mm)	270	270	270
	4.19	Overall length	l1 (mm)	2155 ⁵⁾	2245 ³⁾	2245 ⁵⁾
	4.20	Length to fork face	l2 (mm)	1155	1245	1245
	4.21	Overall width	b1/b2 (mm)	1110	1110	1110
	4.22	Fork dimensions	s/e/l (mm)	45x100x1000	45x100x1000	45x100x1000
	4.23	Fork carriage to DIN 15173, class/form A, B		2A	2A	2A
	4.24	Width of fork carriage	b3 (mm)	800	800	800
	4.25	Fork spread, minimum/maximum	b5 (mm)	316/697	316/697	316/697
	4.26	Width between reach legs	b4 (mm)	802	802	802
	4.28	Reach travel	l4 (mm)	534	600	600
Performances	4.31	Ground clearance, mast	m1 (mm)	92	92	92
	4.32	Ground clearance, center of wheelbase	m2 (mm)	66	66	66
	4.33	Aisle width with pallet 1000x1200 across forks	Ast (mm)	2718	2771	2771
	4.34	Aisle width with pallet 800x1200 along forks	Ast (mm)	2772	2811	2811
		Aisle width with pallet 1100x1100 along forks	Ast (mm)	2763	2810	2810
	4.35	Turning radius	Wa (mm)	1639	1744	1744
	4.37	Length of chassis	l7 (mm)	1656	1800	1800
	5.1	Travel speed, with/without load	km/h	10/10.1 ²⁾⁴⁾	10/10.1 ²⁾⁴⁾	10/10.2 ²⁾⁴⁾
	5.2	Lifting speed, with/without load	m/s	0.42/0.47 ²⁾	0.39/0.48 ²⁾	0.38/0.48 ²⁾
	5.3	Lowering speed, with/without load	m/s	0.6/0.58 ²⁾	0.55/0.51 ²⁾	0.55/0.50 ²⁾
Drive	5.4	Reach speed, with/without load	m/s	0.17/0.17 ²⁾	0.17/0.17 ²⁾	0.18/0.18 ²⁾
	5.7	Climbing ability, with/without load, 30 minute rating	%	4.5/8.2	4.5/8.2	4.5/8.2
	5.8	Maximum climbing ability, with/without load, 5 minute rating	%	10.0/10.0	10.0/10.0	10.0/10.0
	5.9	Acceleration time, with/without load	s	5.8/5.4 ⁴⁾	5.9/5.6 ⁴⁾	6/5.6 ⁴⁾
	5.10	Service brake		Electrical	Electrical	Electrical
Others	6.1	Drive motor, 60 minute rating	kW	6.5	6.5	6.5
	6.2	Lift motor, 15% rating	kW	14	14	14
	6.3	Battery according to IEC		43531C/254-2	43531C/254-2	43531C/254-2
	6.4	Battery voltage/rated capacity (5h)	V/Ah	48/310	48/420	48/420
	6.5	Battery weight (±5%)	kg	530	690	690
	8.1	Type of drive control		LDC	LDC	LDC
	8.2	Working pressure for attachments	bar	200	200	200
	8.3	Oil flow for attachments	l/min	6.5	6.5	6.5
	8.4	Noise level at operator's ear	dB	73	73	73
Figures for standard version may vary when optional equipment is fitted						
1) Capacity may be reduced for high lifts						
2) Traction, lift, lower and reach speeds and weights may vary with alternative lift heights						
3) For all heights, see mast table						
4) Reduced speed and acceleration on request						
5) Measured with 1,150 mm forks						

Lifting capacity diagrams

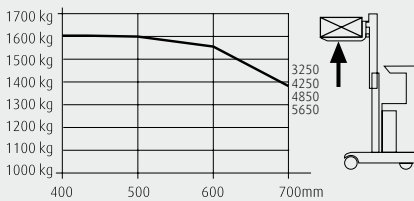
R14 SP Standard Mast



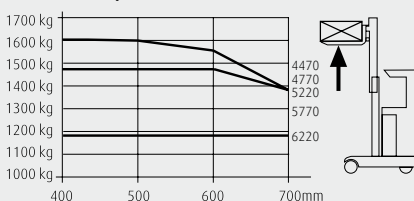
R14 SP Triplex Mast



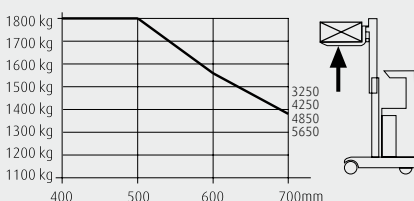
R16 SP Standard Mast



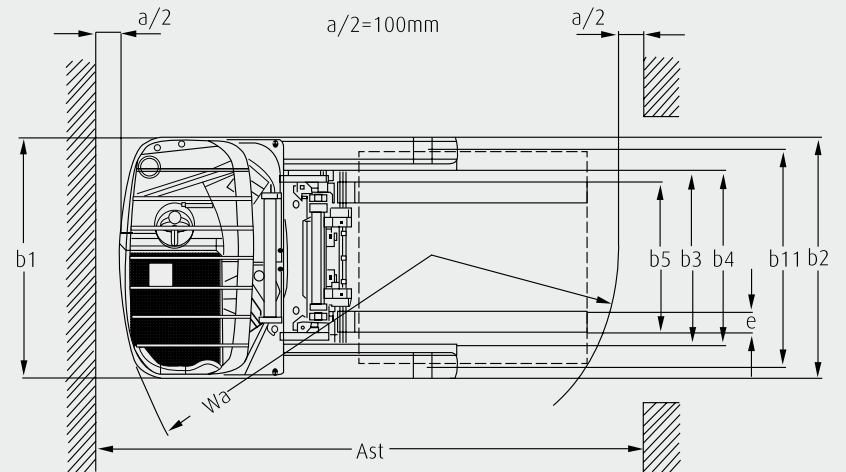
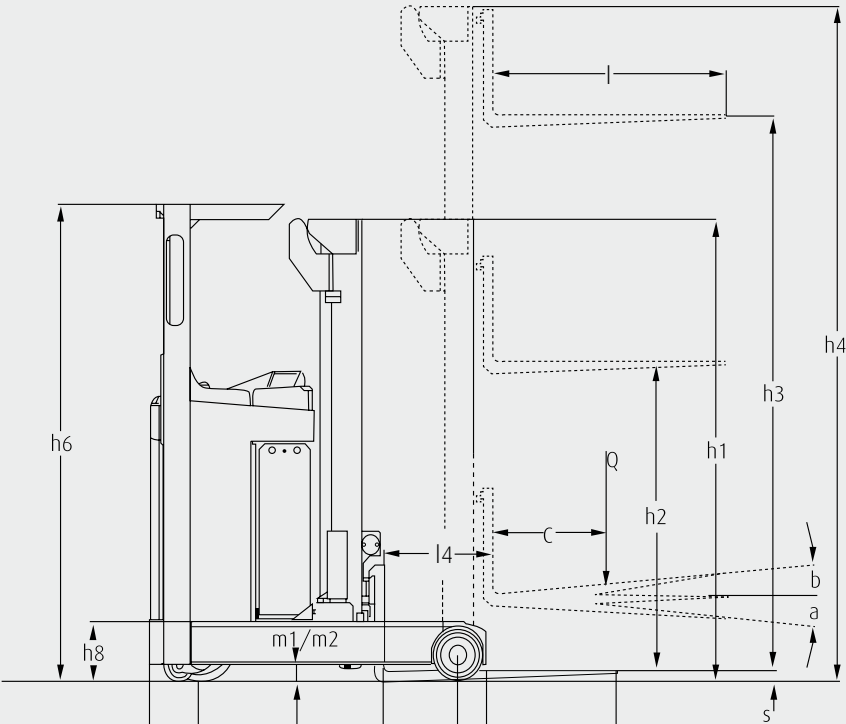
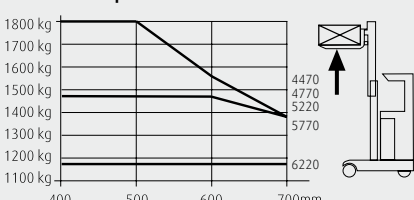
R16 SP Triplex Mast



R18 SP Standard Mast



R18 SP Triplex Mast



Overall height and lift heights, Standard (in mm)					
Lift	h3	3250 S	4250 S	4850 S	5650 S
Free lift	h2	150	150	150	150
Height of mast; lowered	h1	2130	2630	2930	3330
Height of mast; extended	h4	3945	4945	5545	6345

Overall height and lift heights, Duplex, Triplex (in mm)						
Lift	h3	3070 D	4470 T	4770 T	5220 T	5770 T 6220 T
Free lift	h2	1470	1367	1468	1617	1867 2017
Height of mast; lowered	h1	2080	2080	2180	2330	2580 2730
Height of mast; extended	h4	3683	5083	5383	5833	6383 6934