

Standard and Optional Equipment

Batteries

- Capacities to suit every type of application: 360 Ah to 700 Ah
- Quick and easy battery change

Standard Equipment

- Overall width (reach legs) 1250mm
- Linde Load Control
- Linde twin accelerator pedals
- PVC seat
- Comprehensive digital instrument display
- 6.5 kW maintenance-free AC drive motor
- 14 kW maintenance-free AC lift motor
- Polyurethane drive and load wheel tyres
- All wheel brake
- Linde proportional 180° electric steering
- Clearview triplex mast lift 5755mm (R 14S to R 20S),
- Tilting carriage and integral sideshift
- Fork length 1150mm
- Automatic slowdown at maximum lift
- Automatic slowdown at end of reach travel
- Automatic creep speed above 8500mm lift mast
- Linde Digital Control system (LDC) incorporating CAN bus technology

Optional Equipment

- Clear view triplex masts with max. lift height :
R14S-8555mm
R16S/R16SN/R20SN-9455mm
R20S-11500mm
- Alternative fork lengths
- Seat interlock alarm
- Audible warning on travel
- Working lamp(s) and/or beacon
- Additional hydraulic circuit
- Fork extensions
- Ambient cab
- Height pre-selector
- Height indicator
- Battery mounted on rollers in the truck
- Battery roller stand
- 360° steering (with single accelerator pedal only).
- Single accelerator pedal and direction switch with interlock actuated by left foot

Other options available on request

Linde clearview mast

- Torsion-resistant fixed triplex clearview mast
- Hydraulic hoses are reeved through the mast to enhance visibility



Electric Reach Trucks R14S, R16S, R20S 1400, 1600, 2000kg

115-03

Linde Material Handling

Safety

The Linde ACTIVE range has established itself as a leading performer in intensive narrow aisle storage and retrieval applications, with superb levels of operator comfort, safety and impressive productivity ratios.

Performance

The Linde ACTIVE drive and lift concept employing advanced Linde control technology translates the powerful output of the AC motors into seamless productivity. A comprehensive selection of batteries ensures that each truck is precisely matched to the demands of individual applications.

Comfort

A perfect interface between operator and truck has been achieved with the Linde ergonomic design concept, including spacious cab, comfort-class seat and intuitive layout of all controls. The operator's working environment ensures optimum performance.

Reliability

The Linde ACTIVE range is constructed for heavy, sustained duty. Its compact robot-welded chassis is designed for maximum strength and durability. The rugged construction and components provide a low centre of gravity for excellent stability and high residual capacities.

Service

Efficiency at work, efficiency in servicing. With uptime ratios of 1000 hours between services and a computerised diagnostic system, maintenance intervals are minimal and operating costs are reduced. All the truck's performance parameters can easily be configured to match the requirements of the customer's application.

Features

Superb working environment

- Linde Load Control: Precise, effortless fingertip control of all mast movements
- Ergonomic seat fully adjustable to the operator's personal preferences
- Adjustable steering console



Stability

- Chassis designed and built for maximum strength and durability
- Heavy-duty construction materials and components provide low centre of gravity for stability and high residual capacities



Linde twin drive pedals

- Fast change of forward-reverse direction without shifting feet on pedals
- Short pedals stroke
- Reduced operator fatigue and increased productivity



Precision

- Accurate control of driving with Linde twin drive pedals
- Precision load handling with Linde Load Control levers
- Responsive progressive and adjustable electric steering with essential 'road feel'
- Digital instrument display for instant readout of truck status



Servicing

- Maintenance-free AC traction and lift motors
- Configurable Linde Digital Control System, incorporated diagnostic technology
- Easy service access
- Up to 1000 operating hours between services

Linde Material Handling

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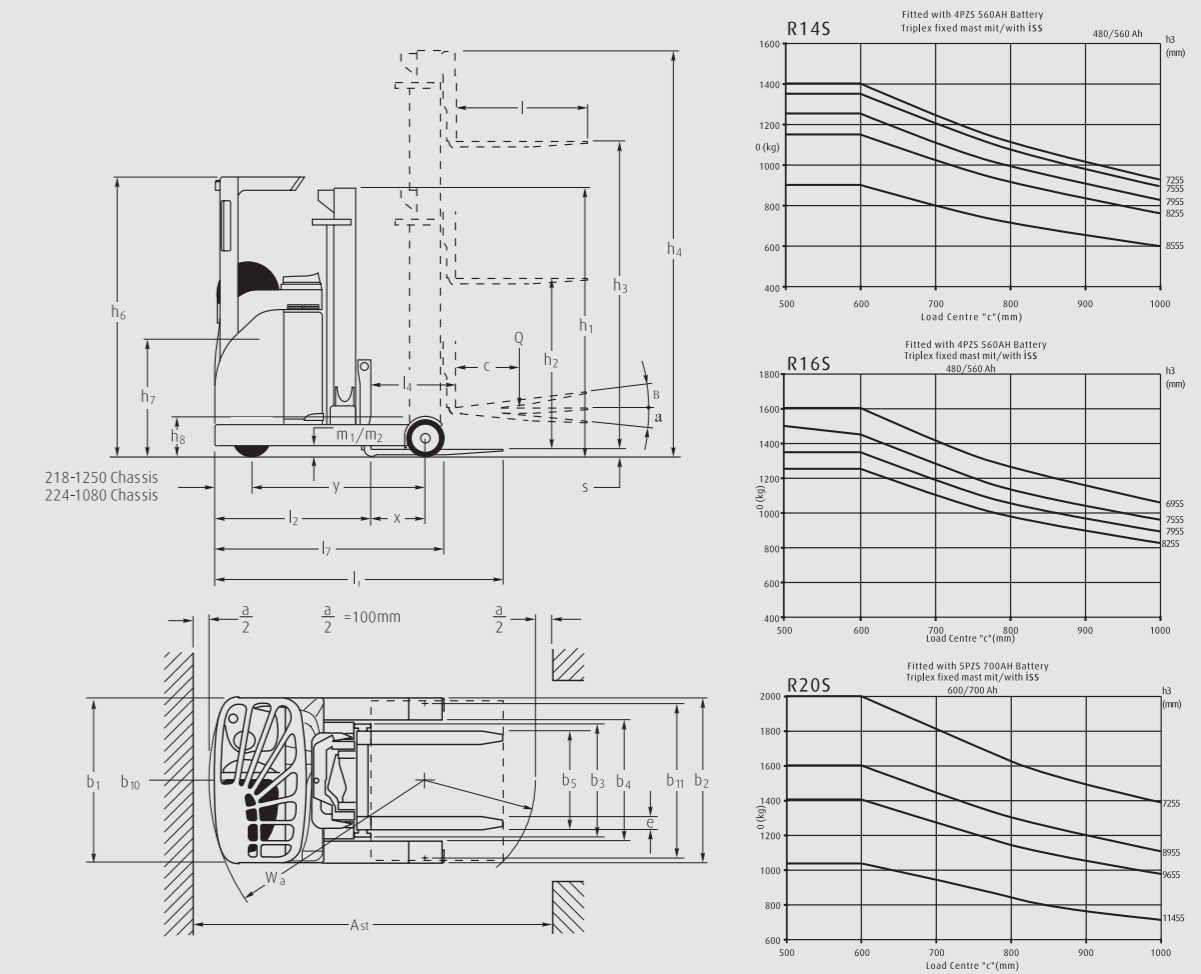
Subject to modification in the interests of progress, illustration and technical details not binding for actual constructions and may show the optional equipments.

Technical Data

		Characteristics			
Characteristics	1.1	Manufacturer	Linde	Linde	
	1.2	Model designation	R14S	R16S	
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power	Battery	Battery	
	1.4	Operation	Seated	Seated	
	1.5	Load capacity	Q(kg)	1.4 ³⁾	
	1.6	Load centre	c(mm)	600	
	1.8	Axle centre to fork face	x(mm)	239	
	1.9	Wheelbase	y(mm)	1275	
	Weights	2.1	Service weight	kg	2890 ⁴⁾
2.3		Axle load without load, front (drive)/rear (load)	kg	1800/1090 ⁴⁾	
2.4		Axle load, fork outreached with load, front (drive)/rear (load)	kg	520/3770 ⁴⁾	
2.5		Axle load, fork retracted with load, front (drive)/rear (load)	kg	1485/2805 ⁴⁾	
Wheels		3.1	Tyres, front (drive)/rear (load) C = cushion rubber, P = polyurethane	P/P	P/P
	3.2	Tyre size, front (drive) wheel	mm	343X135	
	3.3	Tyre size, rear (load) wheel	mm	285x100	
	3.5	Wheels, number front (drive)/rear (load) (x = driven)		1x/2	
	3.6	Track width, front (drive)	mm	0	
	3.7	Track width, rear (load)	mm	1150	
Dimensions	4.1	Mast/fork carriage tilt, forward/backward	α/β (°)	2/4	
	4.2	Height of mast, lowered	h1(mm)	2476	
	4.3	Free lift	h2(mm)	1627	
	4.4	Lift	h3(mm)	5755 ¹⁾	
	4.5	Height of mast, extended	h4(mm)	6495	
	4.7	Height of overhead guard (cabin)	h6(mm)	2110	
	4.8	Height of seat, minimum/maximum	h7(mm)	940/1030	
	4.10	Height of reach legs	h8(mm)	310	
	4.19	Overall length	l1(mm)	2407	
	4.20	Length to fork face	l2(mm)	1257	
	4.21	Overall width	b1/b2	1234/1250	
	4.22	Fork dimensions	s/e/l(mm)	80x40x1150	
	4.23	Fork carriage to DIN 15173, class/form A, B		2A	
	4.24	Width of fork carriage	b3(mm)	830	
	4.25	Fork spread, minimum/maximum	b5(mm)	296/690	
	4.26	Width between reach legs	b4(mm)	922	
	4.28	Reach travel	l4(mm)	424 ²⁾	
	4.31	Ground clearance, mast	m1(mm)	75	
	4.32	Ground clearance, centre of wheelbase	m2(mm)	75	
	4.33	Aisle width with pallet 1000x1200 across forks	Ast(mm)	2709	
4.34	Aisle width with pallet 800x1200 along forks	Ast1(mm)	2781		
4.35	Turning radius	Wa(mm)	1540		
4.37	Length of chassis	l7(mm)	1638		
Performances	5.1	Travel speed, with/without load	km/h	13.5 ⁴⁾	
	5.2	Lifting speed, with/without load	m/s	0.42/0.66 ⁴⁾	
	5.3	Lowering speed, with/without load	m/s	0.55/0.45 ⁴⁾	
	5.4	Reach speed, with/without load	m/s	0.15/0.15 ⁴⁾	
	5.7	Climbing ability, with/without load, 30minute rating	%	4.5/8.2	
	5.8	Maximum climbing ability, with/without load, 5minute rating	%	10/10	
	5.9	Acceleration time, with/without load	s	5.5/4.8	
	5.10	Service brake		Hydraulic/electric	
	Drive	6.1	Drive motor, 60minute rating	kW	6.5
		6.2	Lift motor, 15% rating	kW	14.0
6.3		Battery according to IEC		254-2	
6.4		Battery voltage/rated capacity (5h)	V/Ah	48/560 ²⁾	
6.5		Battery weight (±5%)	kg	939	
Others	8.1	Type of drive control		Linde Digital Control (LDC)	
	8.2	Working pressure for attachments	bar	200	
	8.3	Oil flow for attachments	l/min	6.5	
	8.4	Noise level at operator's ear	dB(A)	63	

Figures for standard version may vary when options equipment is fitted
 1) For all heights, see table
 2) Alternative batteries or optional integral sideshift increase length to fork face and 90° stacking aisle widths.
 3) Capacity may be reduced for high lifts
 4) Traction, lift, lower and reach speeds and weights may vary with alternative lift heights
 5) Lift heights 6400 mm and above increase length to fork face and 90° stacking aisle widths by 27 mm on R 20S
 6) Alternative widths over reach legs of 1400 mm or 1600 mm are available for R 20S

Lifting capacity diagrams



Mast Datasheet (in: mm)

R14															
Lift	h ₃	4655	5155	5755	6255	6655	6955	7255	7555	7955	8255	8555			
Free Lift	h ₂	1261	1627	1627	2061	2061	2061	2527	2527	2527	2527	3061			
Height of mast,lowered	h ₁	2110	2476	2476	2910	2910	2910	2910	3376	3376	3376	3910			
height of mast,extended	h ₄	5395	5895	6495	6995	7395	7695	7995	8295	8695	8995	9295			
R16															
Lift	h ₃	4655	5155	5755	6255	6655	6955	7255	7555	7955	8555	8955	9155	9455	
Free Lift	h ₂	1261	1627	1627	2061	2061	2061	2527	2527	2527	3061	3061	3061		
Height of mast,lowered	h ₁	2110	2476	2476	2910	2910	2910	2910	3376	3376	3376	3910	3910		
height of mast,extended	h ₄	5395	5898	6495	6995	7395	7695	7995	8295	8695	9295	9695	9895	10195	
R14HD - 6355 to 8555mm; R16HD - 6355 to 11455mm; R20 - 4355 to 11455mm															
Lift	h ₃	4355	4655	5155	5755	6355	6655	6955	7255	7555	7955	8255	8555	8955	9155
Free Lift	h ₂	1261	1627	1627	2061	2081	2081	2581	2581	2581	2581	3081	3081	3081	
Height of mast,lowered	h ₁	2110	2476	2476	2910	2930	2930	3430	3430	3430	3430	3930	3930	3930	
height of mast,extended	h ₄	5095	5395	5895	6495	7139	7439	7739	8039	8339	8739	9039	9339	9739	
R14HD - 6355 to 8555mm; R16HD - 6355 to 11455mm; R20 - 4355 to 11455mm															
Lift	h ₃	9455	9655	9955	10155	10455	10655	10955	11155	11455					
Free Lift	h ₂	3081	3081	3581	3581	3581	3581	4081	4081	4081					
Height of mast, lowerd	h ₁	3930	3930	4430	4430	4430	4430	4930	4930	4930					
height of mast, extended	h ₄	10239	10439	10739	10939	11239	11439	11739	11939	12239					

With STD 1200mm high load backrest, the actual mast extended height h4 will increase 500mm.