

Standard Equipment/Optional Equipment

Standard Equipment

General	Safety
Three-wheel configuration	Monitoring system stops truck in the event of traction, steering or lift failure
Overall width (reach legs) 1250 mm	Linde Curve Drive Control
Linde Load Control for lift/lower, reach, tilt and sideshift	Three independent braking systems
Linde twin accelerator pedals	All-wheel braking
Full suspension fabric seat with electric lumbar support	Emergency isolator
Comprehensive digital instrument display	Seat-actuated traction interlock
6.5 kW maintenance-free AC drive & 14 kW AC lift motor	Electric horn
Polyurethane drive and load wheel tyres	Automatic slowdown at end of reach travel and max. lift
Self-adjusting service brakes	Protective polycarbonate screen between control console and mast
Linde proportional 180° electric steering	Battery locking interlock
Clearview Triplex mast 4655 mm; 6355 mm (R 14/16 HD)	Electrical and hydraulic overload protection
Tilting carriage and integral sideshift	Overhead guard
Fork length 1150 mm	Automatic creep speed above 8500 mm lift
Linde Digital Control system (LDC) incorporating CAN bus technology	
	Batteries and chargers
Mast	48 V, 360 Ah to 700 Ah
Torsion resistant fixed triplex clearview mast	Wide selection of chargers available
High residual capacities	

Optional Equipment

Narrow chassis 1080 mm (R 14 N, R 16 N & R 20 N)	Cold store cab (not with narrow chassis)
Wide chassis 1400 mm/1600 mm (R 20)	Ambient cab (not with narrow chassis)
Triplex mast lifts to 8555 mm (R 14, R 14 HD & R 14 N), 9455 mm (R 16, R 16 N & R 20 N), 11455 mm (R 16 HD & R 20)	Height pre-selector
Single accelerator pedal, automotive layout with left foot interlock	Height indicator
Alternative fork lengths	PIN access
Fork extensions	LFM
Load backrest	CCTV
Single axis joysticks for all hydraulic functions	Working lamps/beacons
Audible traction alarm	Additional hydraulic circuit
360° steering (single accelerator pedal only)	Mesh or polycarbonate protection on overhead guard
Seat heater	Profiled overhead guard for drive-in racking
PVC seat material	Side guidance wheels
Seat back extension	Load wheel protection
Variable electronic drive unit brake	Battery on rollers
Cold store protection to minus 30°C	Battery roller stand
	Alternative colour schemes
	Other options available on request



Electric Reach Trucks
Capacity 1400 - 2000 kg
R 14 S, R 16 S, R 20 S Active Series 115-12



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 with lumbar support and intuitive layout of all controls. The operator's working environment ensures optimum performance.

Features

Superb working environment

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

Manoeuvrability

- A short wheelbase, compact chassis dimensions and smooth electric power steering ensure easy and efficient manoeuvring



Linde clearview mast

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

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 Curve Drive Control

Linde twin accelerator pedals

- Effortless forward/reverse selection places minimal demands on operator
- Operator is able to maintain high efficiency and productivity levels



Precision

- Assured manoeuvring with Linde twin accelerator pedals
- Precision load handling with Linde Load Control
- Responsive progressive and adjustable electric steering with essential 'road feel'
- Digital instrument display for instant readout of truck status
- Excellent visibility of load and surrounding environment



Batteries

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



Servicing

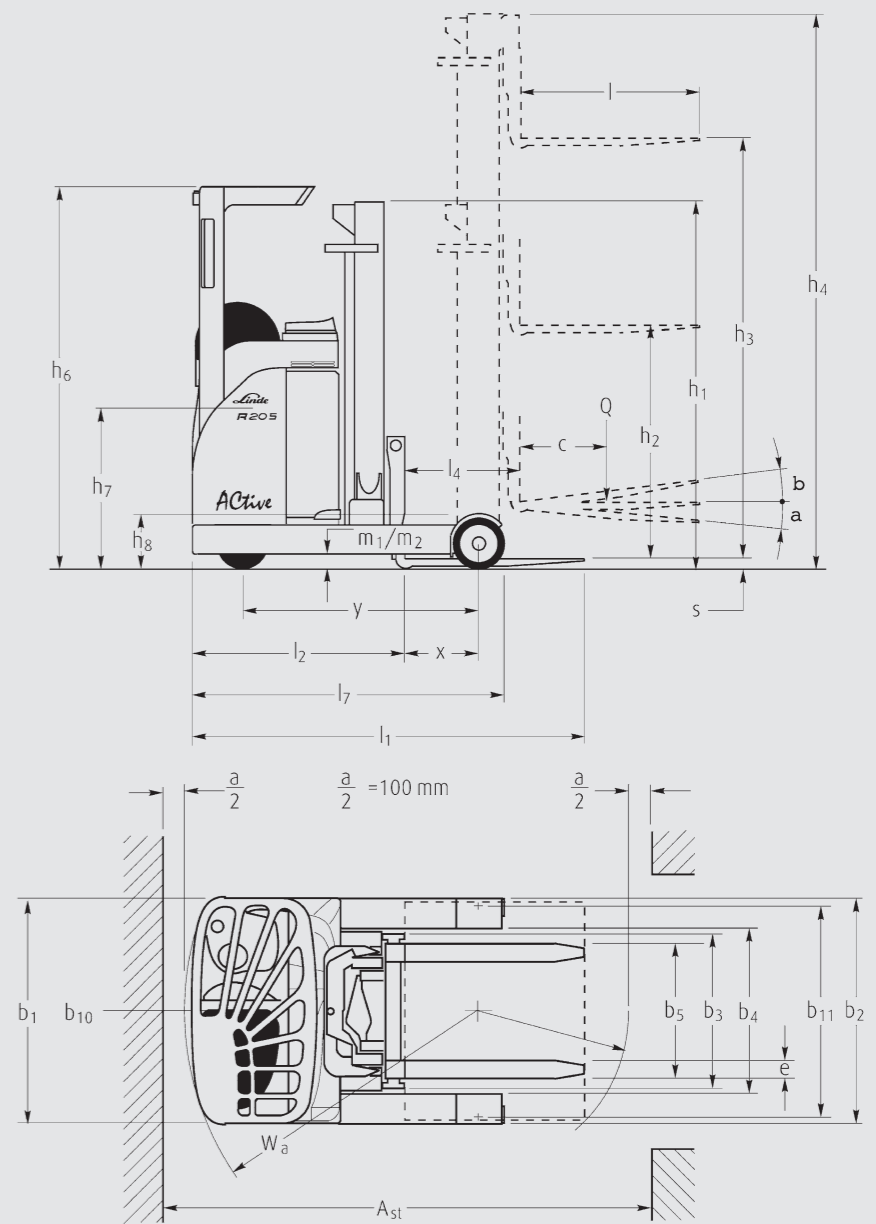
- Maintenance-free AC traction and lift motors
- Configurable Linde Digital Control system
- Incorporates diagnostic technology
- Easy service access
- Up to 1000 operating hours between services

Technical Data according to VDI 2198

Characteristics	LINDE																												
	1.1	1.2	1.3	1.4	1.5	1.6	1.8	1.9	2.1	2.3	2.4																		
1.1	Manufacturer																												
1.2	Model designation																												
1.3	Power unit																												
1.4	Operation																												
1.5	Load capacity																												
1.6	Load centre																												
1.8	Axle centre to fork face																												
1.9	Wheelbase																												
Weights	2.1	2.3	2.4	2.5	Wheels/Tyres																								
2.1	Service weight				3.1	3.2	3.3	3.5	3.6	3.7	4.1																		
2.3	Axle load without load, front/rear				3.2	3.3	3.5	3.6	3.7	4.1	4.2																		
2.4	Axle load, fork outreached, with load, front/rear				3.2	3.3	3.5	3.6	3.7	4.1	4.3																		
2.5	Axle load, fork retracted, with load, front/rear				3.2	3.3	3.5	3.6	3.7	4.1	4.4																		
Dimensions	3.1	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	3.2	3.3	3.5	3.6	3.7	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.10	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.28	4.31	4.32	4.33	4.34	4.35	4.37	
	Performance	5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	Drive	6.1	6.2	6.3	6.4	6.5	6.6													
	5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1		6.2	6.3	6.4	6.5	6.6														
	5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1		6.2	6.3	6.4	6.5	6.6														
	5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1		6.2	6.3	6.4	6.5	6.6														
5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1	6.2		6.3	6.4	6.5	6.6															
5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1	6.2		6.3	6.4	6.5	6.6															
5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1	6.2		6.3	6.4	6.5	6.6															
5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1	6.2		6.3	6.4	6.5	6.6															
5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1	6.2		6.3	6.4	6.5	6.6															
5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1	6.2		6.3	6.4	6.5	6.6															
5.1	5.2	5.3	5.4	5.7	5.8	5.9	5.10	6.1	6.2	6.3	6.4	6.5	6.6																
Others	8.1	8.2	8.3	8.4																									
8.1	8.2	8.3	8.4																										
8.1	8.2	8.3	8.4																										
8.1	8.2	8.3	8.4																										

1) Capacity could degrade with high lift height
 2) Figures in parenthesis refer to AC powered S version (series 115-02)
 3) for lift height greater than 6400 mm, +27 mm for aisle width and load centre
 4) Alternative b2 = 1400 or 1600 mm
 5) Including a 200 mm (min.) operating aisle clearance.

6) Reduced speed and acceleration on request.
 7) With mast height h3 = 4655 mm
 8) With mast height h3 = 6355 mm
 9) Alternative batteries may alter I1, Ast and service weight.
 10) Values in parenthesis with cabin



Triplex clearview fixed masts with tilting carriage (2° forward, 4° back) and integrated sideshift (80 mm each side)

R 14 and R 14 N	h3	h2	h1	h4	4655	5155	5755	6255	6655	6955	7255	7555	7955	8255	8555	-	-	-
Lift	h3	4655	5155	5755	6255	6655	6955	7255	7555	7955	8255	8555	-	-	-			
Free lift	h2	1261	1627	1627	2061	2061	2061	2527	2527	2527	2527	3061	-	-	-			
Height of mast, lowered	h1	2110	2476	2476	2910	2910	2910	3376	3376	3376	3376	3910	-	-	-			
Height of mast, extended	h4	5395	5895	6495	6995	7395	7695	7995	8295	8695	8995	9295	-	-	-			

The following lifts are available within the parameters indicated for the models shown:

R 14 HD (6355 - 8555 mm); R 16 HD (6355 - 11455 mm); R 20 (4355 - 11455 mm); R 20 N (4355 - 9455 mm)	h3	h2	h1	h4	4355	4655	5155	5755	6355	6655	6955	7255	7555	7955	8255	8555	8955	9155
Lift	h3	4355	4655	5155	5755	6355	6655	6955	7255	7555	7955	8255	8555	8955	9155			
Free lift	h2	1261	1627	1627	2061	2081	2081	2581	2581	2581	2581	2581	3081	3081	3081			
Height of mast, lowered	h1	2110	2476	2476	2910	2930	2930	3430	3430	3430	3430	3930	3930	3930				
Height of mast, extended	h4	5095	5395	5895	6495	7139	7439	7739	8039	8339	8739	9039	9339	9739				
Lift	h3	9455	9655	9955	10155	10455	10655	10955	11155	11455	-	-	-	-				
Free lift	h2	3081	3081	3581	3581	3581	3581	4081	4081	4081	-	-	-	-				
Height of mast, lowered	h1	3930	3930	4430	4430	4430	4430	4930	4930	4930	-	-	-	-				
Height of mast, extended	h4	10239	10439	10739	10939	11239	11439	11739	11939	12239	-	-	-	-				

Alternative lift heights are available on request. Lift height = h3 + s + 10 mm