Standard Equipment/Optional Equipment

Standard Equipment

General	Safety				
Three-wheel configuration	Monitoring system stops truck in the event of traction,				
Overall width (reach legs) 1270mm	steering or lift failure				
Linde Load Control for lift/lower, reach, tilt and side shift	Dual channel fail-to-safe circuitry				
Linde Digital Control system (LDC) incorporating	Emergency circuit isolator				
CAN bus technology	Three independent braking systems				
Linde twin accelerator pedals	Seat-actuated traction interlock				
Full suspension fabric seat with electric lumbar support and	Electric horn				
adjustable armrests	Automatic slowdown at maximum lift				
Comprehensive head-up digital instrument display	Reach travel soft stop				
6.5 kW maintenance-free AC drive & 14 kW AC lift motor	Protective glass screen between operator and mast				
Polyurethane drive and load wheel tyres	Battery locking interlock				
Self-adjusting service brakes	Electrical and hydraulic overload protection				
Linde proportional 180° electric steering	Overhead guard				
Fork length 1150mm	Automatic creep speed above 8500mm lift				
Lift height indicator/Soft stop lowering					
	Mast				
Batteries and chargers	Torsion-resistant fixed triplex panoramic mast				
48 V, 480 Ah to 1000 Ah depending on model and application	Integral side shift				

High residual capacities

Optional Equipment

Wide selection of chargers available to suit application

Panoramic fixed mast lifts to 9455mm (R14X/R14X high),	Seat backrest extension
9955mm (R16X), 11455mm (R17X, R17X HD)	10° Rotating seat (R17X, R17X HD)
360° steering (single accelerator pedal only)	Vertical adjustment armrests
Single accelerator pedal, automotive layout	Heated super-comfort seat
Alternative fork lengths	Seat interlock alarm
Fork extensions	Cold store protection to minus 30°C
Load backrest	Mesh or polycarbonate protection of
Single axis joysticks for lift, reach, tilt and additional functions	Mast mounted CCTV camera system
Manual fork tilt	Linde Connected Solutions (connect
Horizontal fork leveling	PIN access
Side shift centering	Blue Spot™
Additional hydraulic circuit	Working lamps/beacons
Height pre-selector	Audible traction alarm
High vision glass roof for standard overhead guard and	Mounting bracket for terminals
increased height overhead guard (plus 175mm)	Alternative colour schemes
Increased height overhead guard (plus 175mm)	
PVC seat	Other options available on request

on overhead guard



The revolutionary Linde X range of reach trucks sets new industry standards for comfort and performance combined with outstanding safety in narrow aisle storage and retrieval applications.

Performance

Safety

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

Comfort

A perfect interface between operator and truck is assured with the Linde X range concept, which has doubled the space in the cab. The comfort-class seat with lumbar support, incorporates the compact steering wheel and all hydraulic controls integrated into adjustable armrests. Unrestricted comfort and a truly intuitive control layout provides the perfect working environment for optimum performance.

Reliability

The Linde X range is constructed for consistent reliability in demanding applications. Its compact, robot-welded chassis ensures maximum structural integrity and durability. The rugged construction and components provide a low centre of gravity for excellent stability and high residual capacities.

Productivity

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 full suspension, comfort class seat fully adjustable to suit the operator's personal preference including two adjustable armrests
- → The compact electric steering wheel is integrated in the left armrest
- → Fingertip joystick controls for all mast functions are integrated in the right armrest



- → Robot-welded chassis, designed and built for maximum strength and operational stability
- → The fixed, panoramic mast has high resistance to torsional stresses for safe and exceptionally stable load handling
- → Heavy duty materials provide a low centre of gravity for impressive stability and high residual capacities

- → The compact, short wheelbase chassis combines with a small diameter steering wheel and effortless electric steering for impressive manouevrability in narrow aisles
- → Faster and safer work cycles for higher productivity

Manoeuvrability

Precision

Optional equipment Unique ultra-wide mast design

- → Panoramic view of the load and → High vision glass roof → Heated super-comfort seat
- → The mast is fixed to the chassis while a traversing head provides the reach movement
- → Integrated side shift is standard

storage zones

→ Unique Booster - cylinder for reduced mast deflection



→ 10° swivel seat (R17X, R17X HD)

→ 360° steering (with single drive pedal

→ Single pedal with seperate direction

- → Seamless travelling and pinpoint manoeuvring with Linde twin accelerator pedals
- → Precison load handling with Linde Load
- → Responsive and adjustable electric steering with essential ,road feel'
- → Digital head-up instrument display for instant read out of truck status
- → Excellent visibility of load and surrounding environment



- → Batteries uniquely located under operator's compartment → Capacities to suit every type of appli-
- cation: 480 1000 Ah (heavy duty)
- → Battery easily changed/checked using pallet truck or hoist attachment

Servicing

selector

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

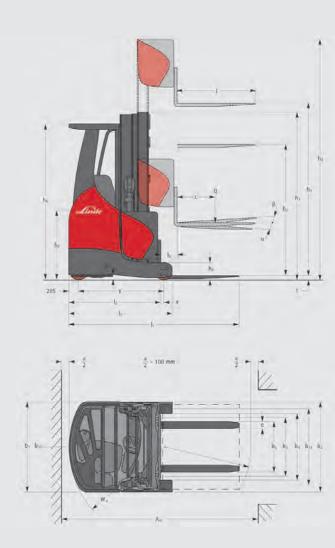


Technical Data according to VDI 2198

1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE
1.2	Manufacturer's type designition		R14X	R14X High	R16X	R17X	R17X HD
ى 1.2a	Series		116-03	116-03	116-03	116-03	116-03
1.3	_ Power unit		Battery	Battery	Battery	Battery	Battery
필 1.4	Operation		Seat	Seat	Seat	Seat	Seat
1.5	Load capacity/Load	Q (t)	1.4 1)	1.4 1)	1.6 ¹)	1.7 1)	1.7 1)
1.6	Load centre distance	c (mm)	600 / 500	600 / 500	600 / 500	600 / 500	600 / 500
1.8	Axle centre to fork face	x (mm)	46	46	41	41	41
1.9	Wheelbase	y (mm)	1130	1130	1130	1346	1346
2.1	Service weight	(kg)	3620 ²⁾	3770 ²⁾	4170 ²⁾	4960 ²⁾	5080 ²⁾
2.3 2.4	Axle load without load, front/rear	(kg)	1960 / 1660 ²⁾	1960 / 1810 ²⁾	1992 / 2178 ²⁾	1852 / 3108 ²⁾	2121 / 2959 ²⁾
2.4	Axle load, fork outreached, with load, front/rear	(kg)	910 / 4110	906 / 4264	860 / 4910	896 / 5764	1180 / 5600
2.5	Axle load, fork retracted, with load, front/rear	(kg)	1150 / 3870	1117 / 4053	1162 / 4608	1375 / 5285	1415 / 5365
<u>پ</u> 3.1	Tyres rubber, SE, pneumatic, polyurethane		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
3.2			Ø 343 x 135	Ø 343 x 135	Ø 343 x 135	Ø 343 x 135	Ø 343 x 135
3.3	Tyre size, rear		Ø 230 x 140	Ø 230 x 140	Ø 230 x 140	Ø 230 x 140	Ø 230 x 140
3.5	Wheels, number front/rear (x = driven)		1x / 2	1x / 2	1x / 2	1x / 2	1x / 2
3.7	Track width, rear		1072	1072	1072	1072	1072
4.1		a/b (°)	0.0 / 2.5 (2.0 / 2.5) 3)	0.0 / 2.5 (2.0 / 2.5) 3)	0.0 / 2.5 (2.0 / 2.5) 3)	0.0 / 2.5 (2.0 / 2.5) 3)	0.0 / 2.5 (2.0 / 2.5) 3)
4.2	Height of mast, lowered	h1 (mm)	2455	2955	3455	3230	4605
4.3		h2 (mm)	1541	2041	2541	2316	3691
4.4		h3 (mm)	5655	6955	7555	7855	10655
4.5	Height of mast, extended	h4 (mm)	6614	7914	8514	8814	11614
4.7	Height of overhead quard (cabin)	h6 (mm)	2190 [2365] 4)	2355 [2530] 4)	2355 [2530] 4)	2190 [2365] 4)	2355 [2530/2410] 5)
4.8	Height of seat/stand on platform	h7 (mm)	970 / 1130	1135 / 1295	1135 / 1295	970 / 1130	1135 / 1295
4.10	Height of reach legs	h8 (mm)	245	245	245	245	245
4.19		I1 (mm)	2444	2444	2444	2660	2660
<u>4.20</u>	Length to fork face	12 (mm)	1294	1294	1294	1510	1510
4.21	·	b1/b2 (mm)	1270 / 1270	1270 / 1270	1270 / 1270	1270 / 1270	1270 / 1270
4.22		s/e/I (mm)	40 x 80 x 1150	40 x 80 x 1150	45 x 100 x 1150	45 x 100 x 1150	45 x 100 x 1150
4.23		2, 2, 1 ()	2A	2A	2A	2A	2A
4.24		b3 (mm)	710	710	710	710	710
4.25		b5 (mm)	296 / 690	296 / 690	316 / 710	316 / 710	316 / 710
4.26		b4 (mm)	930	930	930	930	930
4.28		14 (mm)	170	170	170	170	170
4.32	Ground clearance, centre of wheelbase	m2 (mm)	70	70	70	70	70
4.34.1		Ast (mm)	2662 ⁶⁾	2662 ⁶⁾	2666 ⁶⁾	2882 ⁶⁾	2882 ⁶⁾
4.34.2		Ast (mm)	2756 ⁶⁾	2756 ⁶⁾	2761 ⁶⁾	2977 ⁶⁾	2977 ⁶⁾
4.35		Wa (mm)	1335	1335	1335	1551	1551 [-/1611] 5)
	Length of chassis	17 (mm)	1451	1451	1451	1667	1667
5.1		(km/h)	14 / 14 2) 7)	14 / 14 ²⁾⁷⁾	14 / 14 ^{2) 7)}	14 / 14 ²⁾⁷⁾	14 / 14 2) 7)
5.2	Lifting speed, with/without load	(m/s)	0.44 / 0.7 2) 7)	0.41 / 0.7 ^{2) 7)}	0.41 / 0.7 ²⁾⁷⁾	0.4 / 0.7 2) 7)	0.4 / 0.7 2) 7)
e 5.3		(m/s)	0.55 / 0.452)	0.55 / 0.45 2)	0.55 / 0.45 2)	0.55 / 0.45 2)	0.55 / 0.45 2)
5.4	Reach speed, with/without load	(m/s)	0.1 / 0.105 ²⁾	0.1 / 0.105 2)	0.1 / 0.105 2)	0.1 / 0.105 ²⁾	0.1 / 0.105 ²⁾
5.7	Climbing ability, with/without load	(%)	3.9 / 7.1	3.9 / 7.1	3.9 / 7.1	3.9 / 7.1	3.9 / 7.1
5.8	Maximum climbing ability, with/without load	(%)	10.0 / 10.0	10.0 / 10.0	10.0 / 10.0	10.0 / 10.0	10.0 / 10.0
5.9	Acceleration time, with/without load	(s)	5.8 / 5.07	5.8 / 5.0 7)	5.8 / 5.07	5.8 / 5.07	5.8 / 5.07
5.10		(0)	Electric/hydraulic	Electric/hydraulic	Electric/hydraulic	Electric/hydraulic	Electric/hydraulic
6.1		(kW)	6.5	6.5	6.5	6.5	6.5
6.2	Lift motor rating at S3 15%	(kW)	14	14	14	14	14
e 6.3		()	43 531 / A	43 531 / A	43 531 / A	43 531 / A	43 531 / A
6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	48 / 480	48 / 690/750	48 / 690/750	48 / 640	48 / 920/1000
6.5	Battery weight (± 5%)	(kg)	720	1013	1013	946	1315
6.6	Power consumption according to VDI cycle	(kWh/h)	upon request	upon request	upon request	upon request	upon request
8.1		(8911/11)	Electronic/stepless	Electronic/stepless	Electronic/stepless	Electronic/stepless	Electronic/stepless
s 10.1		(bar)	180 8)	180 ⁸⁾	180 ⁸⁾	180 [®]	180 ⁸⁾
<u></u>		(I/min)	25 ⁸⁾	25 8)	25 ⁸⁾	25 8)	25 ⁸⁾
= 10.2		(1/11111)	43	23	4.3	43	43

1) Capacity could degrade with high lift height
2) Drive, lift, lower and push speed as well as weight can change with other lift heights.
3) Values in parenthesis with manual fork tilt
4) Values in [...] for option OHG raised.
5) Values in [.../..] for option OHG raised / cold store cabin.

6) Including a 200 mm (min.) operating aisle clearance.
7) Reduced speed and acceleration on request.
8) With attachment carriage



Triplex masts									
Lift	h3	5155	5655	6355	6455	6555	6655	6955	7055
Height of mast, lowered	h1	2455	2455	2955	2955	2955	2955	2955	2955
Height of mast, extended	h4	6114	6614	7314	7414	7514	7614	7914	8014
Free lift	h2	1541	1541	2041	2041	2041	2041	2041	2041
_ Lift	h3	7555	7855	7955	8255	8455	8555	9055	9155
Height of mast, lowered	h1	3455	3455	3455	3455	3455	3955	3955	3955
Height of mast, extended	h4	8514	8814	8914	9214	9414	9514	10014	10114
Free lift	h2	2541	2541	2541	2541	2541	3041	3041	3041
_ Lift	h3	9255	9455	9655	9755	10655	11155	11355	11455
Height of mast, lowered	h1	3955	3955	4455	4455	4930	4930	4930	4930
Height of mast, extended	h4	10214	10414	10614	10714	11614	12114	12314	12414
Free lift	h2	3041	3041	3541	3541	4016	4016	4016	4016

Alternative lift heights available on request. Lift height = h3 + s
Maximum lifts:
R14X = 9455 mm
R16X = 9955 mm
R17X/R17X HD = 11455 mm