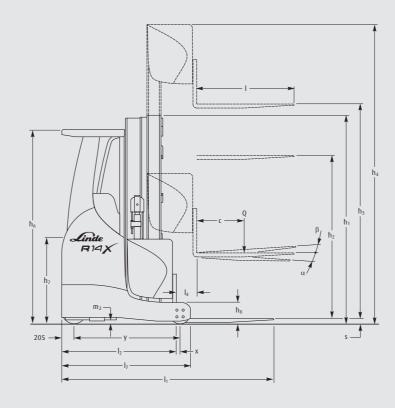
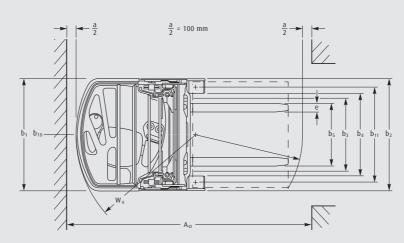
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Technical data

	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		R 14 X	R 16 X	R 17 X	R 17 X HD
undidetellstics	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Battery	Battery	Battery	Battery
2	1.4	Operation: manual, pedestrian, stand-on, seated, order picker		Seated	Seated	Seated	Seated
	1.5	Load capacity	Q (kg)	1.400 ¹⁾	1.6001)	1.700 ¹)	1.700 1)
	1.6	Load centre	c (mm)	600/500	600/500	600/500	600/500
	1.8	Axle centre to fork face	x (mm)	41	41	41	41
	1.9	Wheelbase	y (mm)	1130	1130	1346	1346
	2.1	Service weight	kg	3620	3810	3746	4330
)	2.3	Axle load without load, front (drive)/rear (load)	kg	1960/1660 ²⁾	1980/1830 ²⁾	1817/1929 ²⁾	2100/2230²)
	2.4	Axle load, fork outreached with load, front (drive)/rear (load)	kg	910/4110²)	860/4550 ²⁾	896/4550 ²⁾	1180/48502)
	2.5	Axle load, fork retracted with load, front (drive)/rear (load)	kg	1150/3870 ²⁾	1150/4260 ²⁾	1340/41062)	1394/46362)
	3.1			P/P	P/P	P/P	P/P
	3.2	Tyre size, front (drive) wheel	mm	Ø 343 x 135	Ø 343 x 135	Ø 343 x 135	Ø 343 x 135
	3.3	Tyre size, rear (load) wheel	mm	Ø 230 x 140	Ø 230 x 140	Ø 230 x 140	Ø 230 x 140
	3.5	Wheels, number front (drive)/rear (load) (x = driven)		1x/2	1x/2	1x/2	1x/2
	3.6	Track width, front (drive)	b ₁₀ mm	0	0	0	0
	3.7	Track width, rear (load)		1072	1072	1072	1072
_	_	Mast/fork carriage tilt, forward/backward	b ₁₁ mm			0/2.5 (2/2.5) 3)	0/2.5 (2/2.5) ³⁾
	4.1		α/β (°)	0/2.5 (2/2.5) 3)	0/2.5 (2/2.5) 3)	, , , ,	
	4.2	Height of mast, lowered	h ₁ (mm)	24554)	2455 4)	2955 4)	29554)
	4.3	Free lift	h ₂ (mm)	15414	15414	20414	2041 4)
	4.4	Lift	h ₃ (mm)	46554)	51554	63554	69554)
	4.5	Height of mast, extended	h ₄ (mm)	56144	61144)	73144	79144)
	4.7	Height of overhead guard (cab)	h ₆ (mm)	2190 (2365) 5)	2355 (2530) 5)	2190 (2365) 5)	2355 (2530) 5)
	4.8	Height of seat, minimum/maximum	h ₇ (mm)	970/1130	1135/1295	970/1130	1135/1295
	4.10	Height of reach legs	h ₈ (mm)	245	245	245	245
	4.19	Overall length	I ₁ (mm)	2294	2294	2510	2510
	4.20	Length to fork face	I ₂ (mm)	1294	1294	1510	1510
	4.21	Overall width	$b_1/b_2 \text{ (mm)}$	1270/1270	1270/1270	1270/1270	1270/1270
	4.22	Fork dimensions	s/e/l (mm)	40 x 80 x 1000	45 x 100 x 1000	45 x 100 x 1000	45 x 100 x 1000
Dimensions	4.23	Fork carriage to DIN 15173, class/form A, B		2A	2A	2A	2A
	4.24	Width of fork carriage	b ₃ (mm)	820	820	820	820
	4.25	Fork spread, minimum/maximum	b ₅ (mm)	316/710	316/710	316/710	316/710
	4.26	Width between reach legs	b ₄ (mm)	910	910	910	910
	4.28	Reach travel	I ₄ (mm)	170	170	170	170
	4.31	Ground clearance, mast	m ₁ (mm)	-	-	_	_
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	70	70	70	70
	4.33	Aisle width, pallet 1 000 x 1 200 across forks	Ast (mm)	2666	2666	2882	2882
	4.34	Aisle width, pallet 800 x 1 200 along forks	Ast (mm)	2761	2761	2977	2977
	4.35	Turning radius	W _a (mm)	1335	1335	1551	1551
	4.37	Length of chassis	I ₇ (mm)	1451	1451	1667	1667
	5.1	Travel speed, with/without load	km/h	14/14 ²⁾⁶⁾	14/14 ^{2) 6)}	14/14 ^{2) 6)}	14/14 ^{2) 6)}
	5.2	Lifting speed, with/without load	m/s	0.44/0.72)6)	0.41/0.72)6)	0.4/0.72)6)	0.4/0.72)6)
	5.3	Lowering speed, with/without load	m/s	0.55/0.45 ²⁾	0.55/0.45 ²⁾	0.4/0.7	0.55/0.45 ²
	5.4	Reach speed, with/without load	m/s	0.10/0.105 2)	0.10/0.105 2)	0.10/0.105 ²⁾	0.10/0.105 2)
					· · · · · · · · · · · · · · · · · · ·		
	5.7	Climbing ability, with/without load, 30 minute rating	0/0	3.9/7.1	3.9/7.1	3.9/7.1	3.9/7.1
	5.8	Maximum climbing ability, with/without load, 5 minute rating	0/0	10/10	10/10	10/10	10/10
	5.9	Acceleration time, with/without load	S	5.8/56	5.8/56	5.8/56	5.8/56
	5.10	Service brake	1147	Hydraulic/electric	Hydraulic/electric	Hydraulic/electric	Hydraulic/electri
	6.1	Drive motor, 60 minute rating	kW	6.5	6.5	6.5	6.5
	6.2	Lift motor, 15% rating	kW	14	14	14	14
	6.3	Battery to DIN/IEC		43531A/254-2	43531A/254-2	43531A/254-2	43531A/254-2
	6.4	Battery voltage/rated capacity (5 h)	V/Ah	48/480	48/660	48/640	48/920
	6.5	Battery weight (±5%)	kg	720	1013	946	1530
	6.6	Power consumption to VDI cycle	kWh/h	7)	7)	7)	7)
	8.1	Type of drive control		Electronic/stepless	Electronic/stepless	Electronic/stepless	Electronic/steple
	8.2	Working pressure for attachments	bar	200	200	200	200
		0:1 (1	l/min	6.5	6.5	6.5	6.5
	8.3	Oil flow for attachments	1/1111111	0.5	0.5	0.5	

¹⁾ Traction, lift, lower and reach speeds and weights may vary with alternative lift heights 2) Figures in brackets are with manually operated hydraulic fork tilt 3) For other heights, see table 4) Figure in brackets is for optional overhead guard with increased headroom





Triplex mast									
Lift	h3	4655	5155	5755	6355	6655	6955	7255	755
Height of mast, lowered	h1	2455	2455	2955	2955	2955	2955	3455	345
Height of mast, extended	h4	5614	6114	6714	7314	7614	7914	8214	851
Free lift	h2	1541	1541	2041	2041	2041	2041	2541	254
Lift	h3	7955	8255	8555	8955	9155	9455	9755	1015
Height of mast, lowered	h1	3455	3455	3955	3955	3955	3955	3955	445
Height of mast, extended	h4	8914	9214	9514	9914	10114	10414	10714	11111
Free lift	h2	2541	2541	3041	3041	3041	3041	3041	3541
Lift	h3	10655	10755	11155	11455	-	-	-	
Height of mast, lowered	h1	4455	4455	4930	4930				-
Height of mast, extended	h4	11614	11714	12114	12414	_	_	_	
Free lift	h2	3541	3541	4016	4016	_	_	_	-
Altoroative lift beights on		t Lift bai							

Alternative lift heights on request. Lift height = h3 + s

Maximum lifts - R 14 X : 9455 mm R 16 X : 9955 mm R 17 X / R 17 X HD : 11455 mm



⁵⁾ Figure in brackets is for intrusive stacking 6) Reduced speed and acceleration on request 7) Refer to manufacturer for figures

and adjustable armrests Comprehensive head-up digital instrument display

6.5 kW maintenance-free AC drive motor 14 kW maintenance-free AC lift motor

Polyurethane drive and load wheel tyres Self-adjusting service brakes

Linde proportional 180° electric steering

Panoramic clearview triplex fixed mast lift 4655 mm (R 14 X), 5155 mm (R 16 X), 6355 mm (R 17 X), 6955 mm (R 17 X HD)

Integral sideshift and automatic fork tilt Fork length 1000 mm

Lift height indicator

Soft stop lowering Standard colour scheme vermilion and charcoal grey

Batteries and chargers

48 V, 480 Ah to 920 Ah depending on model and application

Wide selection of chargers available to suit application

Optional equipment

Variable electronic drive unit brake

Panoramic fixed mast lifts to 9455 mm (R 14 X), 9955 mm (R 16 X), 11455 mm (R 17 X, R 17 X HD) Single accelerator pedal, automotive layout Alternative fork lengths Fork extensions Load backrest Single axis joysticks for lift, reach, tilt and functions Audible traction alarm 360° steering (single accelerator pedal only) Seat heater PVC seat material Seat back extension Cold store protection

Cold store cab (R 17 X HD only)

Manual fork tilt Automatic fork leveling (manual tilt only)

Automatic sideshift centring Working lamps/beacons

Additional hydraulic circuit

Mesh or polycarbonate protection on overhead guard Height pre-selector

Linde Digital Control system (LDC) incorporating CAN bus

Monitoring system stops truck in the event of traction,

Protective glass screen between operator and mast

Electrical and hydraulic overload protection

Automatic creep speed above 8500 mm lift

Torsion-resistant fixed triplex panoramic mast

technology

steering or lift failure

All-wheel braking

Reach travel soft stop

Battery locking interlock

Overhead guard

Automatic fork tilt

Integral sideshift High residual capacities

Mast

Electric horn

Emergency circuit isolator

Dual channel fail-to-safe circuitry

Three independent braking systems

Automatic slowdown at maximum lift

Seat-actuated traction interlock

Safety

PIN access Data logger

Seat interlock alarm

Increased height overhead guard (plus 175 mm)

Alternative colour schemes

Other options available on request



Safety

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

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.

Linde Material Handling

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.

Linde

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 the operator's personal preferences including two adjustable armrests
- → The compact electric steering wheel is integrated in the left armrest



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 head-up instrument display for instant read out of truck status
- → Excellent visibility of load and surrounding environment

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

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

→ Effortless forward/reverse selection places minimal demands on operator

Tel +44(0)1256 342000, Fax +44(0)1256 342923, www.linde-mh.co.uk, enquiries@linde-mh.co.uk

→ Operator is able to maintain high efficiency and productivity levels

Linde twin accelerator pedals

Linde Material Handling (UK) Ltd

Kingsclere Road, Basingstoke, Hampshire RG21 6XJ

- → Capacities to suit every type of application: 480 Ah to 920 Ah
- → Quick and easy battery change

Unique ultra-wide mast design

- → Panoramic view of the load and storage zones
- → The mast is fixed to the chassis while a traversing head provides the reach movement.
- → Automatic tilt and integrated sideshift are standard



Servicing

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

