



Electric Reach Trucks Capacity 1000 – 1400 kg R 10 C, R 12 C, R 14 C *Active* SERIES 115-02

Safety

Performance and safety go together. The Linde R 10 C/ R 12 C/R 14 C reach trucks offer a high level of both. Three independently working braking systems and electric power steering provide a high level of working precision.

Performance

The Linde Active drive concept employing advanced Linde Digital Control technology translates the abundant power of the trucks AC motors into maximum productivity. A comprehensive selection of batteries enables each truck to be matched exactly to the needs of its specific application.

Comfort

A harmony of operator and truck has been achieved through the Linde ergonomic design concept. Spacious cab, comfort-class seat with lumbar support, neat layout of controls and instruments. The operator compartment is tailored for maximum performance.

Reliability

This Linde reach truck is an easy match for heavy sustained duty. Its compact robot-welded chassis is designed for maximum strength and durability. Low center of gravity, high stability and high residual capacity are achieved by making the base of the frame from cast steel.

Productivity

Efficiency at work, efficiency in servicing. Maintenance intervals as long as 1,000 hours and a computer-controlled diagnostic system cut costs and provide for optimum up-time. All Linde Digital Control parameters can be configured to precisely fit the requirements of the user's application.

Linde Material Handling

Linde

Technical data

Characteristics	1.1	Manufacturer		LINDE	LINDE	
	1.2	Model designation		R 10 C Active	R 12 C Active	
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Battery	Battery	
	1.4	Operation: manual, pedestrian, stand-on, seated, order picker		Seated	Seated	
	1.5	Load capacity	Q (kg)	1000 ³⁾	1200 ³⁾	
	1.6	Load centre	c (mm)	600/500	600/500	
	1.8	Axle centre to fork face	x (mm)	226	226	
	1.9	Wheelbase	y (mm)	1165	1165	
Weights	2.1	Service weight	kg	2630 ⁴⁾	2660 ⁴⁾	
	2.3	Axle load without load, front (drive)/rear (load)	kg	1330/1300 ⁴⁾	1360/1300 ⁴⁾	
	2.4	Axle load, fork outreached with load, front (drive)/rear (load)	kg	590/3040 ⁴⁾	470/3890 ⁴⁾	
	2.5	Axle load, fork retracted with load, front (drive)/rear (load)	kg	1140/2490 ⁴⁾	1170/2690 ⁴⁾	
Wheels and tyres	3.1	Tyres, front (drive)/rear (load) C = cushion rubber, P = polyurethane		P/P	P/P	
	3.2	Tyre size, front (drive) wheel	mm	Ø 343 x 135	Ø 343 x 135	
	3.3	Tyre size, rear (load) wheel	mm	Ø 285 x 100	Ø 285 x 100	
	3.5	Wheels, number front (drive)/rear (load) (x = driven)		1x/2	1x/2	
	3.6	Track width, front (drive)	b10 (mm)	0	0	
	3.7	Track width, rear (load)	b11 (mm)	1150	1150	
Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	2/2	2/2	
	4.2	Height of mast, lowered	h1 (mm)	2230	2230	
	4.3	Free lift	h2 (mm)	150	150	
	4.4	Lift	h3 (mm)	3250 ¹⁾	3250 ¹⁾	
	4.5	Height of mast, extended	h4 (mm)	3873	3873	
	4.7	Height of overhead guard (cabin)	h6 (mm)	2110	2110	
	4.8	Height of seat, minimum/maximum	h7 (mm)	940/1030	940/1030	
	4.10	Height of reach legs	h8 (mm)	310	310	
	4.19	Overall length	l1 (mm)	2357	2357	
	4.20	Length to fork face	l2 (mm)	1157	1157	
	4.21	Overall width	b1/b2 (mm)	1234/1250	1234/1250	
	4.22	Fork dimensions	s/e/l (mm)	40 x 80 x 1200	40 x 80 x 1200	
	4.23	Fork carriage to DIN 15173, class/form A, B		2A	2A	
	4.24	Width of fork carriage	b3 (mm)	880	880	
	4.25	Fork spread, minimum/maximum	b5 (mm)	296/753 ⁸⁾	296/753 ⁸⁾	
	4.26	Width between reach legs	b4 (mm)	922	922	
	4.28	Reach travel	l4 (mm)	407	407	
	4.31	Ground clearance, mast	m1 (mm)	105	105	
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	75	75	
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	2614	2614	
4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	2687	2687		
4.35	Turning radius	Wa (mm)	1435	1435		
4.37	Length of chassis	l7 (mm)	1526	1526		
Performance	5.1	Travel speed, with/without load	km/h	13.5/13.5 ^{4) 5)}	13.5/13.5 ^{4) 5)}	
	5.2	Lifting speed, with/without load	m/s	0.48/0.65 ⁴⁾	0.44/0.65 ⁴⁾	
	5.3	Lowering speed, with/without load	m/s	0.50/0.45 ⁴⁾	0.50/0.45 ⁴⁾	
	5.4	Reach speed, with/without load	m/s	0.15/0.15 ⁴⁾	0.15/0.15 ⁴⁾	
	5.7	Climbing ability, with/without load, 30 minutes rating	%	4.5/8.2	4.5/8.2	
	5.8	Maximum climbing ability, with/without load, 5 minutes rating	%	10/10	10/10	
	5.9	Acceleration time, with/without load	s	5.5/4.8 ⁵⁾	5.5/4.8 ⁵⁾	
	5.10	Service brake		hydraulic/electric	hydraulic/electric	
	Drive	6.1	Drive motor, 60 minutes rating	kW	6 ^{4) 5)}	6 ^{4) 5)}
		6.2	Lift motor, 15 % rating	kW	12	12
6.3		Battery according to IEC		254-2	254-2	
6.4		Battery voltage/rated capacity (5 h)	V/Ah	48/420 ²⁾	48/420 ²⁾	
6.5		Battery weight (±5 %)	kg	750	750	
6.6		Power consumption according to VDI cycle	kWh/h	⁷⁾	⁷⁾	
Others	8.1	Type of drive control		electronic/stepless	electronic/stepless	
	8.2	Working pressure for attachments	bar	200	200	
	8.3	Oil flow for attachments	l/min	6,5	6,5	
	8.4	Noise level at operator's ear	dB (A)	64 ⁷⁾	64 ⁷⁾	

1) For all other heights, see table

2) Alternative batteries and/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

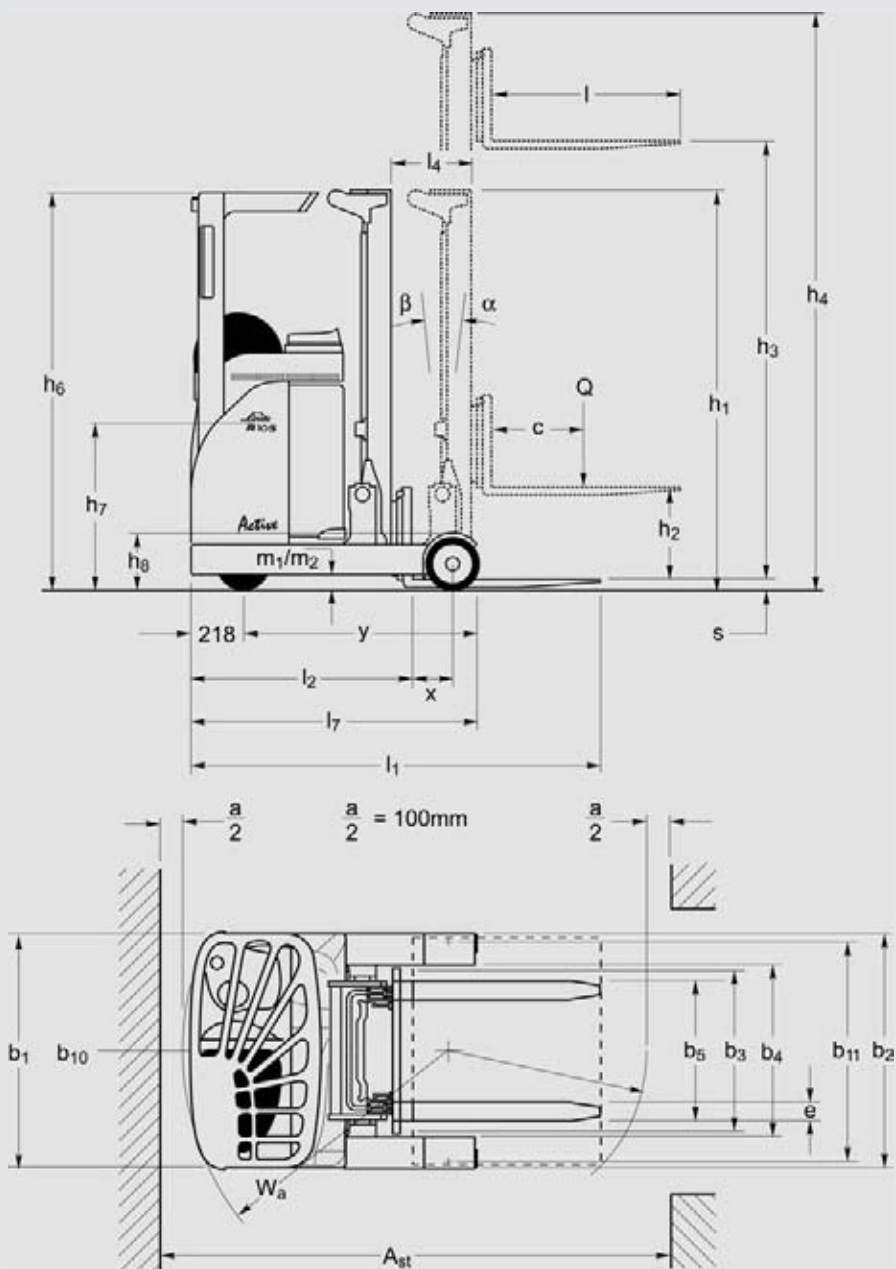
5) Reduced speed and acceleration on request

6) Refer to manufacturer for figures

7) Figure shown is without cab; 69 dB (A) when cab fitted

8) Maximum fork spread is reduced to 690 mm with optional integral sideshift

LINDE
R 14 C Active
Battery
Seated
1400 ³⁾
600/500
336
1275
2800 ⁴⁾
1060/1740 ⁴⁾
520/3680 ⁴⁾
1485/2715 ⁴⁾
P/P
Ø 343 x 135
Ø 285 x 100
1x/2
0
1150
2/2
2230
150
3250 ¹⁾
3873
2110
940/1030
310
2357
1157
1234/1250
40 x 80 x 1200
2A
880
296/753 ⁸⁾
922
517
105
75
2633
2690
1538
1636
13.5/13.5 ⁴⁾⁵⁾
0.40/0.65 ⁴⁾
0.50/0.45 ⁴⁾
0.15/0.15 ⁴⁾
4.5/8.2
10/10
5.5/4.8 ⁹⁾
hydraulic/electric
6 ⁴⁾⁵⁾
12
254-2
48/420 ²⁾
750
7)
electronic/stepless
200
6,5
64 ⁷⁾



Standard mast – R 10 C/R 12 C/R 14 C

Lift	h3	2 850	3 050	3 250	3 650	3 850	4 250	4 450	4 850	5 650
Lift height	h3+s	2 905	3 105	3 305	3 705	3 905	4 305	4 505	4 905	5 705
Height of mast, lowered	h1	2 030	2 130	2 230	2 430	2 530	2 730	2 830	3 030	3 430
Height of mast, extended	h4	3 473	3 673	3 873	4 273	4 473	4 873	5 073	5 473	6 273
Free lift	h2	150	150	150	150	150	150	150	150	150

Duplex mast – R 10 C/R 12 C/R 14 C

Lift	h3	2 770	3 070	3 570	3 770	4 170	-	-	-	-
Lift height	h3+s	2 825	3 125	3 625	3 825	4 225	-	-	-	-
Height of mast, lowered	h1	1 955	2 105	2 355	2 455	2 655	-	-	-	-
Height of mast, extended	h4	3 393	3 693	4 193	4 393	4 793	-	-	-	-
Free lift	h2	1 318	1 468	1 718	1 818	2 018	-	-	-	-

Triplex mast – only R 10 C/R 12 C

Lift	h3	4 020	4 170	4 470	4 620	4 770	5 220	5 470	5 920	6 220
Lift height	h3+s	4 075	4 225	4 525	4 675	4 825	5 275	5 525	5 975	6 275
Height of mast, lowered	h1	1 955	2 005	2 105	2 155	2 205	2 355	2 505	2 655	2 755
Height of mast, extended	h4	4 643	4 793	5 093	5 293	5 393	5 843	6 093	6 543	6 843
Free lift	h2	1 318	1 368	1 468	1 518	1 568	1 718	1 868	2 018	2 118

Alternative lift heights available on request.



Standard and optional equipment

Standard equipment

Truck

Three-wheel version
Overall width (load legs) 1250 mm
Two central Linde Load Control levers:
Left lever controls lift/lower and forward/back reach motions
Right lever controls tilt and sideshift
Linde twin drive pedals
Optimized adjustable height seat with electric lumbar support
Innovative cockpit design: Indicators for steering position, operating hours, battery charge state, safety cutout, motor temperature, brake fluid level, servicing due, parking brake, battery lock and creep travel
Polyurethane drive and load wheel tyres
Self-adjusting load wheel brakes
Linde Digital Control (LDC) for traction and lift
Patented Linde Rheological Steering (LRS)
Fly-by-wire steering control

Batteries and chargers

Powerful 48 V batteries, choice of 360 Ah to 560 Ah capacity depending on truck model
Wide selection of battery chargers or quick chargers available for all duty set-ups

Electronics

Linde Digital Control system (LDC)
CAN bus system

Safety

Electronic Monitoring Systems bring the truck to a safe stop in the event of traction, steering or lift failure
Three independent braking systems
All-wheel braking
Intrinsically safe electrical circuit
Seat-actuated traction power interlock
Electric horn
Automatic lift and reach speed reduction at maximum lift height and on forward/back reach
Polycarbonate screen between operator and mast
Electrical and hydraulic overload protection
Overhead guard

Mast

Torsion resistant standard clear-view mast
High residual capacities at all lift heights

Traction and lift motors

Zero-maintenance 6 kW traction motor
Zero-maintenance 12 kW lift motor

Options

Clear-view standard masts, lift height to 5705 mm
Clear-view duplex masts, lift height to 4225 mm
Clear-view triplex masts, lift height to 6275 mm (R10C/R12C)
Single drive pedal and armrest-integrated direction selector with left-foot lock
Integral sideshift
Alternative fork lengths
Fork extensions
Load backrest
Single control levers for lift, reach, tilt and sideshift functions
Audible traction alarm
360° steering (in conjunction with single drive pedal)
Seat heater

PVC seat cover (optionally seat heater)
Seat back extension
Work lamps and/or beacon lamp
Auxiliary hydraulic circuit
Weatherproof cab
CCTV fork monitoring
Wire or polycarbonate roof screen
Overhead guard designed for drive-in racking
Battery roll out
Custom paintwork

Other options available on request.

Features

Comfortable operator compartment

- 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 and control console
- Excellent visibility of load and surroundings



Stability

- Chassis designed and built for maximum strength
- Bottom part of frame made of cast steel to improve center of gravity, stability and residual capacity

Maneuverability

- Short wheelbase and compact chassis dimensions permit easy maneuvering
- Very well suited for working in narrow aisles

Linde clear-view mast

- Torsion-resistant clear-view masts – standard, duplex and triplex depending on truck model
- Hydraulic hose runs within mast sections

Linde twin drive pedals

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



Precision

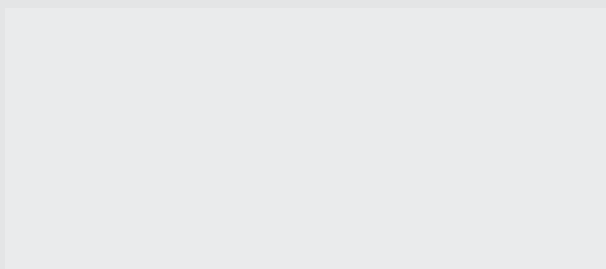
- Accurate control of driving with Linde twin drive pedals
- Precision load handling with Linde Load Control levers
- Responsive rheological steering featuring individually adjustable steering resistance
- Regenerative electric braking

Batteries

- Optimum size of battery for every application: 360 Ah to 560 Ah depending on truck model
- Quick and easy battery change

Servicing

- Maintenance-free AC traction and lift motors
- Configurable Linde Digital Control system
- All points requiring servicing conveniently grouped
- Modern CAN bus architecture



Linde AG

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