Standard and Optional Equipment

Batteries

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

Linde clearview mast

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

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
- \rightarrow 360° steering (with single accelerator pedal only).
- → Single accelerator pedal and direction switch with interlock actuated by left foot

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

Linde Material Handling

115-03

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.

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





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 handing 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
- → Configurable Linde Digital Control System, incorporated diagnostic technology
- → Easy service access
- → Up to 1000 operating hours between



Other options available on request

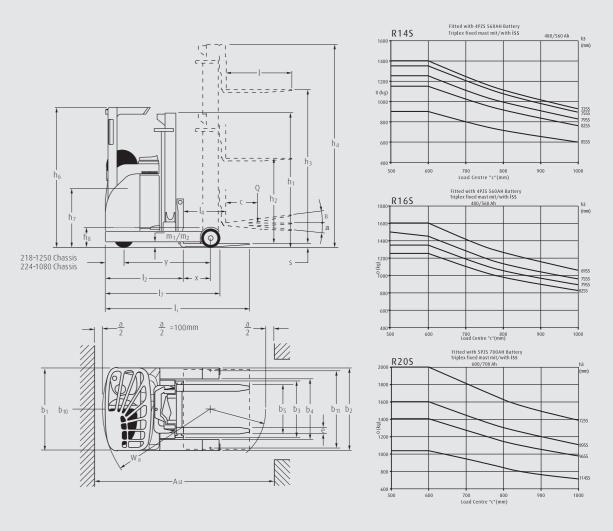
Technical Data

	1 1	Manufacturer		Linde	Linde	Linde
	1.1					
S	1.2	Model designation		R14S	R16S	R20S
Characteristics	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Battery	Battery	Battery
	1.4	Operation	2/1	Seated	Seated	Seated
ara(1.5	Load capacity	Q(kg)	1.4 ³⁾	1.6 3)	2.0 3)
Ë	1.6	Load centre	c(mm)	600	600	600
	1.8	Axle centre to fork face	x(mm)	239	344	403
	1.9	Wheelbase	y(mm)	1275	1385	1520
S	2.1	Service weight	kg	2890 ⁴⁾	2940 ⁴⁾	3260 ⁴⁾
ght	2.3	Axle load without load, front (drive)/rear (load)	kg	1800/1090 4)	1900/1040 ⁴⁾	2120/1140 4)
Weights	2.4	Axle load, fork outreached with load, front (drive)/rear (load)	kg	520/3770 ⁴⁾	530/4010 ⁴⁾	630/4630 ⁴⁾
	2.5	Axle load, fork retracted with load, front (drive)/rear (load)	kg	1485/2805 ⁴⁾	1690/2850 ⁴⁾	1960/3300 ⁴⁾
	3.1	Tyres, front (drive)/rear (load) C = cushion rubber, P = polyurethane		P/P	P/P	P/P
	3.2	Tyre size, front (drive) wheel	mm	343X135	343X135	343X135
Wheels	3.3	Tyre size, rear (load) wheel	mm	285x100	285x100	350x100
/he	3.5	Wheels, number front (drive)/rear (load) (x = driven)		1x/2	1x/2	1x/2
>	3.6	Track width, front (drive)	mm	0	0	0
	3.7	Track width, rear (load)	mm	1150	1150	1150
	4.1	Mast/fork carriage tilt, forward/backward	α/β (°)	2/4	2/4	2/4
	4.2	Height of mast, lowered	h1(mm)	2476	2476	2910
	4.3	Free lift	h2(mm)	1627	1627	2061
	4.4	Lift	h3(mm)	5755 ¹⁾	5755 ¹⁾	5755 ¹⁾
	4.5	Height of mast, extended	h4(mm)	6495	6495	6495
	4.7	Height of overhead guard (cabin)	h6(mm)	2110	2110	2110
	4.8	Height of seat, minimum/maximum	h7(mm)	940/1030	940/1030	940/1030
	4.10	Height of reach legs	h8(mm)	310	310	373
	4.19	Overall length	l1(mm)	2407	2411	2483
S	4.20	Length to fork face	l2(mm)	1257	1261	1333
_	4.20					
nsio	4.21	Overall width	b1/b2	1234/1250	1234/1250	1234/1250
mensio						1234/1250 100x45x1150
Dimensions	4.21	Overall width	b1/b2	1234/1250 80x40x1150 2A	1234/1250	100x45x1150 2A
Dimensio	4.21 4.22	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage	b1/b2 s/e/l(mm) b3(mm)	1234/1250 80x40x1150 2A 830	1234/1250 100x45x1150 2A 830	100x45x1150 2A 830
Dimensio	4.21 4.22 4.23	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B	b1/b2 s/e/l(mm) b3(mm) b5(mm)	1234/1250 80x40x1150 2A 830 296/690	1234/1250 100x45x1150 2A 830 316/710	100x45x1150 2A 830 316/710
Dimensio	4.21 4.22 4.23 4.24	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage	b1/b2 s/e/l(mm) b3(mm)	1234/1250 80x40x1150 2A 830 296/690 922	1234/1250 100x45x1150 2A 830 316/710 922	100x45x1150 2A 830 316/710 922
Dimensio	4.21 4.22 4.23 4.24 4.25	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel	b1/b2 s/e/l(mm) b3(mm) b5(mm)	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾	100x45x1150 2A 830 316/710 922 623 ²⁾
Dimensio	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm) l4(mm) m1(mm)	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75	100x45x1150 2A 830 316/710 922 623 ²⁾ 75
Dimensio	4.21 4.22 4.23 4.24 4.25 4.26 4.28	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm)	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75
Dimensio	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm) l4(mm) m1(mm)	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾
Dimensio	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31 4.32 4.33	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm) l4(mm) m1(mm) m2(mm)	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾
Dimensio	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31 4.32 4.33 4.34	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm) l4(mm) m1(mm) m2(mm) Ast(mm) Wa(mm)	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775
Dimensio	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	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm) l4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) l7(mm)	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911
Dimensio	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 5.1	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm) l4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) l7(mm) km/h	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾
	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 5.1 5.2	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm) l4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) l7(mm) km/h m/s	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾
	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 5.1 5.2 5.3	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load	b1/b2 s/e/l(mm) b3(mm) b5(mm) b4(mm) l4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) l7(mm) km/h m/s m/s	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.55/0.4 ⁴⁾
	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.4	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Reach speed, with/without load	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾
	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.4 5.7	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Va(mm) I7(mm) km/h m/s m/s m/s	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1
	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 5.1 5.2 5.3 5.4 5.7 5.8	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load, 5minute rating	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s m/s m/s m/s	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10
Performances Dimensio	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 5.1 5.2 5.3 5.4 5.7 5.8 5.9	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Acceleration time, with/without load	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Va(mm) I7(mm) km/h m/s m/s m/s	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1
	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 5.1 5.2 5.3 5.4 5.7 5.8 5.9 5.10	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Service brake	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s m/s m/s % % %	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5
Performances	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 5.1 5.2 5.3 5.4 5.7 5.8 5.9 5.10 6.1	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Service brake Drive motor, 60minute rating	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s m/s % % % % % % % % % % % % % % % % % % %	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric 6.5	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5
Performances	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 5.1 5.2 5.3 5.4 5.7 5.8 5.9 5.10 6.1 6.2	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Service brake Drive motor, 60minute rating Lift motor, 15% rating	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s m/s m/s % % %	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric 6.5 14.0	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5
	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 5.1 5.2 5.3 5.4 5.7 5.8 5.9 5.10 6.1 6.2 6.3	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Reach speed, with/without load Climbing ability, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Service brake Drive motor, 60minute rating Lift motor, 15% rating Battery according to IEC	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s % % % % % % kW kW	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric 6.5 14.0 254-2	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5
Performances	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.4 5.7 5.8 5.9 5.10 6.1 6.2 6.3 6.4	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Climbing ability, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Service brake Drive motor, 60minute rating Lift motor, 15% rating Battery according to IEC Battery voltage/rated capacity (5h)	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s m/s m/s b4(mm) s Wa(mh) V/Ah	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric 6.5 14.0 254-2 48/560 ²⁾	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.55/0.4 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5 6.5 14.0 254-2 48/700 ²⁾
Performances	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 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	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Lowering speed, with/without load Climbing ability, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Service brake Drive motor, 60minute rating Lift motor, 15% rating Battery according to IEC Battery voltage/rated capacity (5h) Battery weight (±5%)	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s % % % % % % kW kW	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric 6.5 14.0 254-2 48/560 ²⁾ 939	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5
Drive Performances	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31 4.32 4.33 4.34 4.35 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 8.1	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Curring speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Service brake Drive motor, 60minute rating Lift motor, 15% rating Battery according to IEC Battery voltage/rated capacity (5h) Battery weight (±5%) Type of drive control	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s m/s m/s w/s WW kW	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric 6.5 14.0 254-2 48/560 ²⁾ 939 Linde Digital Control (LDC)	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.55/0.4 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5 6.5 14.0 254-2 48/700 ²⁾ 1119
Drive Performances	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 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 8.1 8.2	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Curring speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load, 5minute rating Acceleration time, with/without load Service brake Drive motor, 60minute rating Lift motor, 15% rating Battery according to IEC Battery voltage/rated capacity (5h) Battery weight (±5%) Type of drive control Working pressure for attachments	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s m/s w/s b4(mm) V/Ah kg	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric 6.5 14.0 254-2 48/560 ²⁾ 939 Linde Digital Control (LDC)	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.55/0.4 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5 6.5 14.0 254-2 48/700 ²⁾ 1119
Performances	4.21 4.22 4.23 4.24 4.25 4.26 4.28 4.31 4.32 4.33 4.34 4.35 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 8.1	Overall width Fork dimensions Fork carriage to DIN 15173, class/form A, B Width of fork carriage Fork spread, minimum/maximum Width between reach legs Reach travel Ground clearance, mast Ground clearance, centre of wheelbase Aisle width with pallet 1000x1200 across forks Aisle width with pallet 800x1200 along forks Turning radius Length of chassis Travel speed, with/without load Lifting speed, with/without load Curring speed, with/without load Reach speed, with/without load Climbing ability, with/without load, 30minute rating Maximum climbing ability, with/without load Service brake Drive motor, 60minute rating Lift motor, 15% rating Battery according to IEC Battery voltage/rated capacity (5h) Battery weight (±5%) Type of drive control	b1/b2 s/e/I(mm) b3(mm) b5(mm) b4(mm) I4(mm) m1(mm) m2(mm) Ast(mm) Ast(mm) Wa(mm) I7(mm) km/h m/s m/s m/s m/s m/s w/s WW kW	1234/1250 80x40x1150 2A 830 296/690 922 424 ²⁾ 75 75 2709 2781 1540 1638 13.5 ⁴⁾ 0.42/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.5/8.2 10/10 5.5/4.8	1234/1250 100x45x1150 2A 830 316/710 922 534 ²⁾ 75 75 2729 2785 1640 1748 13.5 ⁴⁾ 0.40/0.66 ⁴⁾ 0.55/0.45 ⁴⁾ 0.15/0.15 ⁴⁾ 4.7/8.2 10/10 5.5/4.8 Hydraulic/electric 6.5 14.0 254-2 48/560 ²⁾ 939 Linde Digital Control (LDC)	100x45x1150 2A 830 316/710 922 623 ²⁾ 75 75 2821 ⁵⁾ 2867 ⁵⁾ 1775 1911 13.5 ⁴⁾ 0.32/0.51 ⁴⁾ 0.55/0.4 ⁴⁾ 0.15/0.15 ⁴⁾ 3.9/7.1 10/10 5.8/5 6.5 14.0 254-2 48/700 ²⁾ 1119

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 90o 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	515	5 5	755	6255	6	655	6955	7	255	755	55 7	955	8255	8555
Free Lift	h ₂	1261	162	7 1	627	2061	2	061	2061	2	527	2527		527	2527	3061
Height of mast;lowerd	h ₁	2110	247	6 2	476	2910	2	2910 291		3	376	337	76 3	376	3376	3910
height of mast;extended	h ₄	5395	589	5 6	6495		7	395	7695	7	995	829	95 8	695	8995	9295
R16																
Lift	h ₃	4655	5155	5755	625	5 66	55	6955	7255	755	5 :	7955	8555	8955	9155	9455
Free Lift	h ₂	1261	1627	1627	206	1 20	61	2061	2527	252	7 :	2527	3061	3061	3061	3061
Height of mast;lowerd	h ₁	2110	2476	2476	291	0 29	10	2910	3376	337	6	3376	3910	3910	3910	3910
height of mast;extended	h ₄	5395	5898	6495	699	5 73	95	7695	7995	829	5 8	8695	9295	9695	9895	10195
R14HD -6355 to 8555mm; R16HD -6355	to 11455mm:R20-4	355 to 1	1455mm													
Lift	h ₃	4355	4655	5155	5755	6355	665	5 69	955 7.	255	7555	7955	8255	8555	8955	9155
Free Lift	h ₂	1261	1627	1627	2061	2081	208	1 25	581 2	581	2581	2581	1 2581	3081	3081	3081
Height of mast;lowerd	h ₁	2110	2476	2476	2910	2930	293	0 34	130 3	430	3430	3430	3430	3930	3930	3930
height of mast;extended	h ₄	5095	5395	5895	6495	7139	743	9 77	739 8	039	8339	8739	9039	9339	9739	9939
R14HD -6355 to 8555mm; R16HD -6355	to 11455mm:R20-4	355 to 1	1455mm													
Lift	h ₃	945	9455 965		99	55	101	55	10455		10655		10955		155	11455
Free Lift	h ₂	308	1	3081	35	81	358	1	3581		3581		4081	40	81	4081
Height of mast; lowerd	h ₁	393	0	3930	44	30	443	0	4430		4430		4930	49	30	4930
height of mast; extended	h ₄ 10239		.0	10439	107	730	100	10939 113)	11439		11739		11939	

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