Reach Truck

R14 - R20 G

Capacity 1.4 - 2.0 t | Series 1120

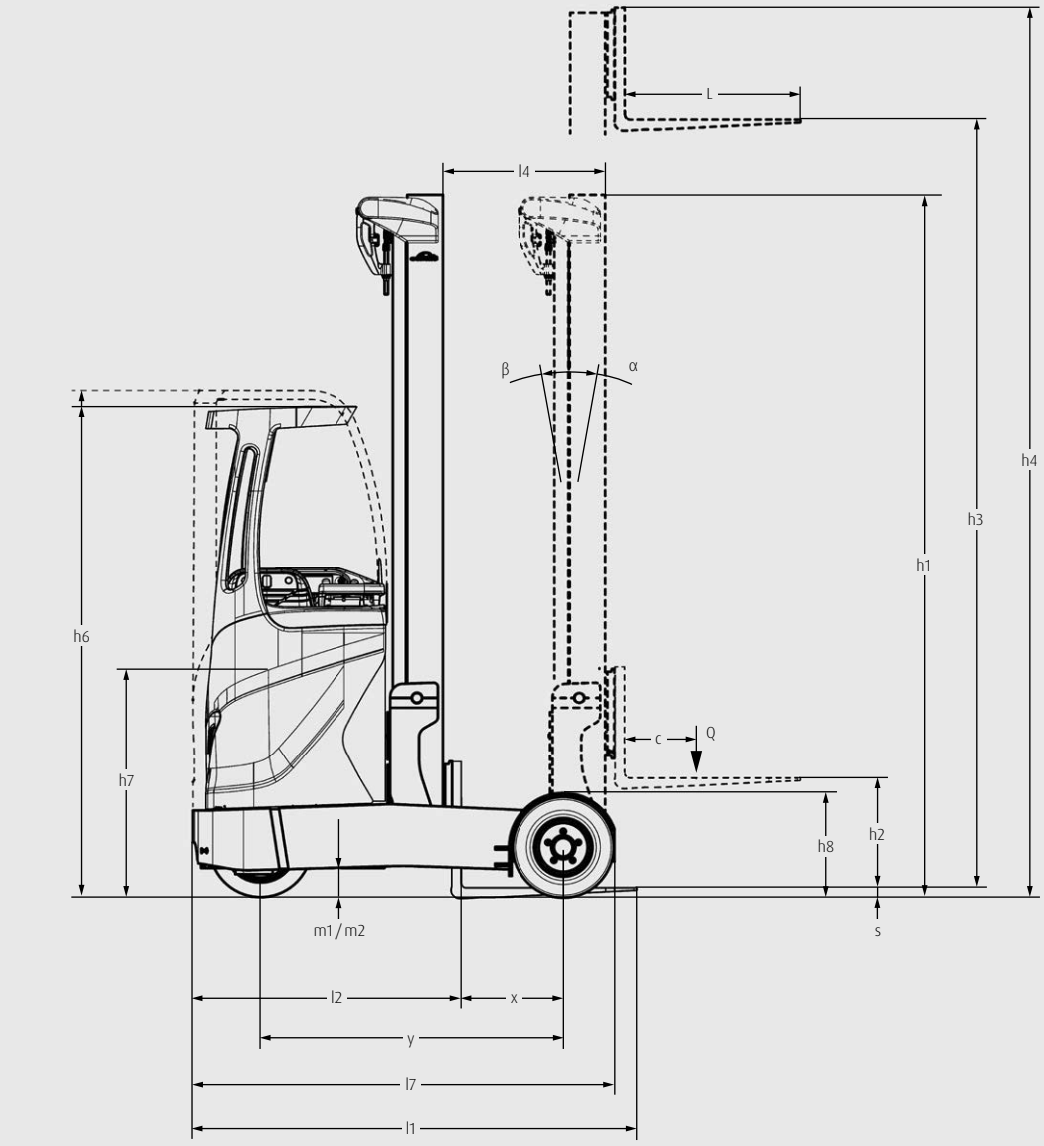
Multi-talent with outstanding operating comfort

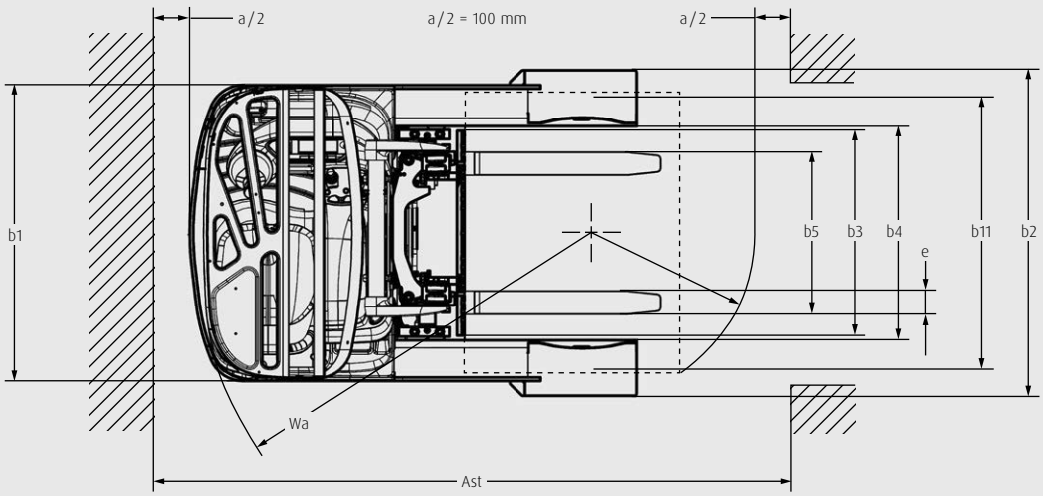
- → Ideal solution for changing environments during hall and yard loading and unloading processes
- → Optimum driving comfort through oversize super-elastic wheels, suspended drive unit, higher ground clearance and resiliently mounted cabin
- → Efficient load handling in narrow shelf aisles thanks to powerful motors and extensive safety features
- → Built-in safety with monitoring system that stops the truck upon traction, steering or lift failure

TECHNICAL DATA (According to VDI 2198)

Characteristics	1.1	Manufacturer		Linde	Linde	Linde
	1.2	**Model**		**R14 G**	**R16 G**	**R20 G**
	1.2.a	Series		1120-00	1120-00	1120-00
	1.3	Power Unit		Battery	Battery	Battery
	1.4	Operation		Seat	Seat	Seat
	1.5	Load capacity / Load	Q (t)	1.4	1.6	2.0
	1.6	Load centre distance	c (mm)	600 / 500	600 / 500	600 / 500
	1.8	Axle centre to fork face	x (mm)	360	360	510
	1.9	Wheelbase	y (mm)	1380	1380	1530
Weights	2.1	Service weight	(kg)	3410 [1]	3470 [1]	3650 [1]
	2.3	Axle load with load, front / rear	(kg)	2160 / 1250	2190 / 1280	2390 / 1260
	2.4	Axle load without load, front / rear	(kg)	645 / 4165	610 / 4460	560 / 5090
	2.4	Axle load, fork retracted, with load, front / rear	(kg)	1916 / 2894	1911 / 3159	2272 / 3378
Wheels / Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		SE	SE	SE
	3.2	Tyre size, front		18 × 8 × 12 1/8	18 × 8 × 12 1/8	18 × 8 × 12 1/8
	3.3	Tyre size, rear		180 / 60 - 10	180 / 60 - 10	200 / 50 - 10
	3.5	Wheels, number front / rear (x = driven)		1x / 2	1x / 2	1x / 2
	3.7	Track width, rear	b11 (mm)	1210	1210	1250
Dimensions	4.1	Mast / fork carriage tilt, forward / backward	a / b (°)	2.0 / 4.0	2.0 / 4.0	2.0 / 4.0
	4.2	Height of mast, lowered	h1 (mm)	2302	2602	3002
	4.3	Free lift	h2 (mm)	1557	1857	2257
	4.4	Lift	h3 (mm)	4910	5710	6960
	4.5	Height of mast, extended	h4 (mm)	5651 [2]	6451 [2]	7701 [2]
	4.7	Height of overhead guard (cabin)	h6 (mm)	2236 [3]	2236 [3]	2236 [3]
	4.8	Seat height relating to SIP / stand height	h7 (mm)	1036 – 1168	1036 – 1168	1036 – 1168
	4.10	Height of reach legs	h8 (mm)	473	473	473
	4.19	Overall length	l1 (mm)	2478 [1] [4]	2478 [1] [4]	2478 [1] [4]
	4.20	Length to fork face	l2 (mm)	1328 4)	1328 4)	1328 4)
	4.21	Overall width	b1 / b2 (mm)	1270 / 1398	1270 / 1398	1270 / 1458
	4.22	Fork dimensions DIN ISO 2331	s / e / l (mm)	45 × 100 × 1150	45 × 100 × 1150	45 × 100 × 1150
	4.23	Fork carriage to ISO 2328, class / type A, B		2B	2B	2B
	4.24	Width of fork carriage	b3 (mm)	790	790	790
	4.25	Fork spread	b5 (mm)	296 / 829	296 / 829	296 / 829
	4.26	Distance between wheel arms / loading surfaces	b4 (mm)	920	920	920
	4.28	Reach travel	l4 (mm)	634	634	779
	4.31	Ground clearance, below mast	m1 (mm)	168	168	168
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	132	132	132
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2768 [1] [4] [5] [6]	2768 [1] [4] [5] [6]	2813 [1] [4] [5] [6]
	4.34.2	Aisle width with pallet 800 × 1200 along forks	Ast (mm)	2821 [1] [4] [5] [6]	2821 [1] [4] [5] [6]	2836 [1] [4] [5] [6]
	4.35	Turning radius	Wa (mm)	1690 [7]	1690 [7]	1838 [7]
	4.37	Length of chassis	l7 (mm)	1920	1920	2070
Performance	5.1	Travel speed, with / without load	(km / h)	14 / 14 [8] [9]	14 / 14 [8] [9]	14 / 14 [8] [9]
	5.2	Lifting speed, with / without load	(m / s)	0.51 / 0.58	0.49 / 0.58	0.44 / 0.58
	5.3	Lowering speed, with / without load	(m / s)	0.6 / 0.6	0.6 / 0.6	0.6 / 0.6
	5.4	Reach speed, with / without load	(m / s)	0.2	0.2	0.2
	5.8	Maximum climbing ability, with / without load	(%)	10.0 / 10.0	10.0 / 10.0	10.0 / 10.0
	5.10	Service brake		hydr. / mech.	hydr. / mech.	hydr. / mech.
Drive	6.1	Drive motor rating S2 60 min	(kW)	6.5	6.5	6.5
	6.2	Lift motor rating at S3 15 %	(kW)	14	14	14
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no		43 531 C / [Li-ION]	43 531 C / Li-ION]	43 531 C / [Li-ION]
	6.4	Battery voltage / rated capacity (5 h)	((V) / (Ah)) o. (kWh)	48 / 560 / 620 [48 / 804] [1] [10]	48 / 560 / 620 [48 / 804] [1] [10]	48 / 560 / 620 [48 / 804] [1] [10]
	6.4.a	Battery energy content	(kWh)	[39.2] [10]	[39.2] [10]	[39.2] [10]
	6.5	Battery weight (± 5 %)	(kg)	939	939	939
	6.6	Power consumption according to VDI cycle	(kWh / h)	4.1	4.3	5.3
	6.7	Turnover output according to VDI 2198	(t / h)	55.0	63.0	77.0
	6.8	Turnover efficiency according to VDI 2198	(t / kWh)	15	16	16

1) Alternative batteries may alter l1, Ast and service weight.
2) With integrated side shifter (with ± 80 mm side stroke)
3) With ambient cabin + 95 mm
4) With cabin + 80 mm
5) Including a 200 mm (min.) operating aisle clearance.
6) Some truck specification require a reach-back restriction. Please note information in Linde World mast table.
7) Attention, with cabin increased turning radius (Wa) due to required fender.
8) forward; backward
9) Depending on performance setting
10) Figures in [ ] with Li-ION battery see line 6.4


L
l4
β
α
h4
h3
h1
h6
h7
c
Q
h8
h2
m1 / m2
s
l2
x
y
l7
l1


a / 2
a / 2 = 100 mm
a / 2
b1
b5
b3
b4
e
b11
b2
Wa
Ast

MAST TABLES

STANDARD MAST (in mm)

Series	1500				
Lift	**h3: 4910**	**h3: 5210**	**h3: 5710**	**h3: 6360**	**h3: 6510**
Height measurements	h1: 2294 h2: 1557 h3: 4910 h4: 5652	h1: 2394 h2: 1657 h3: 5210 h4: 5952	h1: 2594 h2: 1857 h3: 5710 h4: 6452	h1: 2844 h2: 2107 h3: 6360 h4: 7102	h1: 2894 h2: 2157 h3: 6510 h4: 7252
Model					
R14 G-R20 G	○	○	○	○	○

Series	1500				
Lift	**h3: 6660**	**h3: 6810**	**h3: 7260**	**h3: 7410**	**h3: 7710**
Height measurements	h1: 2944 h2: 2207 h3: 6660 h4: 7402	h1: 2994 h2: 2257 h3: 6810 h4: 7552	h1: 3144 h2: 2407 h3: 7260 h4: 8002	h1: 3194 h2: 2457 h3: 7410 h4: 8152	h1: 3294 h2: 2557 h3: 7710 h4: 8452
Model					
R14 G-R20 G	○	○	○	○	○

○ Optional equipment

h1: Height of mast, lowered **h2:** Free lift **h3:** Lift **h4:** Height of mast, extended

STANDARD AND OPTIONAL EQUIPMENT

	Model / Equipment	R14 - R20 G
Safety	Linde Curve Assist	●
	Electrical and hydraulic overload protection	●
	Seat-actuated traction interlock	●
	Battery lock with creep speed interlock	●
	Protective polycarbonate screen between console and mast	●
	Lift height related travel speed reduction	●
	Automatic slowdown at end of reach travel and at maximum lift	●
Service	Sealed, maintenance-free AC 6.5 kW drive and 14 kW lift motors	●
Digitalization	Comprehensive digital instrument display	●
	Connect Linde Fleet Management	○
	Radio data terminal bracket	○
Operation / Load Handling	Linde Digital Control System (LDC)	●
	Linde rheological 180° electric steering with tactile feedback	●
	Single axis joysticks	○
	Multifunction Lever	○
	Lift height indicator above free lift zone	●
	Lift height pre-selector	○
Environment	Fan underneath overhead guard	○
	Height adjustable armrest	○
	Modular ambient cabin versions	○
Electronics	Electric horn and emergency isolator	●
	12 V USB + auxiliary power socket	○
	Linde batteries and charger	○
	Linde Li-ION truck version and Li-ION batteries	○
Workplace	Fully adjustable air suspension seat	●
	Linde twin accelerator pedals	●
	Resiliently mounted operator's compartment	●
	Integral, adjustable control console	●
	Single accelerator pedal	○
	Heated seat	○
	High vision armored glass roof	○
	Wind protection door	○
Mast	Torsion-resistant fixed clear view triplex mast	○
	Integral side shift	○
Attachment / Forks	Side shift centering	○
	Additional hydraulic circuit for attachments	○
Axles and Tyres	Super-elastic load wheel tires and durable rubber drive tyres	●
	Standard load wheel SE non marking	○
	Cushion rubber drive wheel non marking	○
	Metal or Indoor bump stops polyurethane	○
Drive and Brake-System	Four independent braking systems.Regenerative and counter current braking, holding brake control with automatic parking brake and all-wheel brake system	●
Lighting	LED working lights at over head guard	○
	Rotating/flashing beacon	○
	Blue Spot™ / TruckSpot safety light	○
	Red Warning Lines	○

● Standard equipment ○ Optional equipment

CHARACTERISTICS

Ergonomics as standard

Ergonomics

→ Maximum operating comfort due to Multifunction Lever and padded armrests with the preciseness of Linde Load Control
→ Weight-dependent air cushioning and individually adjustable driver's seat made for extremely comfortable operation
→ Low entry vibration-free cabin isolated from chassis prevents fatigue
→ Efficient work through padded armrests with integrated Multifunction Lever
→ Intuitive, individually adaptable operation of all consoles
→ Unique Linde drive unit suspension to absorb vibrations and road shocks

Multifunction Lever

Handling

→ Perfect for the varying requirements of combined indoor and outdoor applications
→ Exceptionally comfortable handling due to oversized load wheels and greater ground clearance
→ Precise operation through individually adjustable steering resistance and Linde Load Control
→ Short wheelbase, compact dimensions and 180° steering offer unrivalled maneuverability

Excellent visibility

Safety

→ Assisted load handling through lifting height display and optional load weight capture
→ Four braking systems including self-adjusting load wheel brakes ensure rapid stop in hazardous situations
→ Protection of the operator for instance in narrow aisles thanks to shoulder-protection frame
→ Auto-speed adjustment in bends due to Linde Curve Assist

Easily accessible service points

Service

→ Maintenance-free motors and uptime ratios of 1000 hours between services ensure high reliability and low costs
→ Easy access to all service components
→ Laptop overview of truck data and individual adjustment of performance parameters to suit customer requirements
→ Pneumatic sprung driver's seat provides quick access to electronic and mechanical components

Linde Material Handling

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