

ORDER PICKER N20 Lol

CAPACITY 800 - 2000 KG | SERIES 132

Safety

Customized cutted forks for a safer pallet handling. Steel front shield and twin-grip hand guard provide additional protection. The front driving position affords optimum visibility for enhanced safety and efficiency.

Performance

Efficiency on the job is the truck's true strength powered by a 3 kW AC motor, it rapidly accelerates to maximum speed (12 km/h unladen). Four-point surface contact ensures high stability and the OptiLift[®] control ensures high precision and productivity in order picking and pallet handling applications.

Comfort

Free lift enabling a picking at optimal height. A perfect interface between operator and truck is assured with the N20 LoL design concept. The unique Linde twin-grip steering control system with all operating controls grouped on the twin-grip head, combines with a cushioned platform and profiled scoop seat to provide the operator with a superbly comfortable working environment.

Reliability

Consistent reliability in demanding applications is assured with the Linde N series. Its sturdy mast and compact, robot welded chassis ensures maximum structural integrity and durability. The rugged structure and components provide a low centre of gravity for excellent stability.

Productivity

Efficiency at work, efficiency in servicing. With uptime ratios of up to 1000 hours between services and a computerised diagnostic system, maintenance intervals are minimal and operating costs are reduced. Easy accessibility of all components and the maintenance free AC technology employed play an additional part in maximising uptime.

TECHNICAL DATA

ACCORDING TO VDI 2198

1.1	Manufacturer			Linde	Linde
1.2	Model designation			N20 LoL	N20 LoL + pallet
1.3	Power unit			Battery	Battery
1.4	Operation		0 (1)	Preparation	Preparation
1.5	Load capacity (on load arms)		Q (kg)	800/2000 1)	800/2000 1)
1.6	Load centre	()	c (mm)	600/1800	750/1850
1.8	Axle centre to fork face	(± 5 mm)	x (mm)	1762 2)	1862 2)
1.9	Wheelbase	(± 5 mm)	y (mm)	2451 5)	2551 5)
2.1	Service weight (incl. battery item 6.5)	(± 10 %)	kg	1600 4)	1600 4)
2.2	Axle load with load, front/rear	(± 10 %)	kg	1529/16713)	1529/16713)
2.3	Axle load without load, front/rear	(± 10 %)	kg	1120/4803)	1120/4803)
3.1	Tyres			Rubber / Polyurethan	Rubber / Polyure
3.2	Tyre size, front		Øx1mm	254 x 102	254 x 102
3.3	Tyre size, rear		Øx1mm	2 x 85 x 60 ⁶⁾	2 x 85 x 60 ⁶⁾
3.4	Auxiliary wheels (dimensions)		Øx1mm	100 x 40	100 x 40
3.5	Wheels, number front/rear (x = driven)			1x + 1/2 ⁸⁾	1x + 1/2 ⁸⁾
3.6	Track width, front	(± 5 mm)	mm	470	470
3.7	Track width, back	(± 5 mm)	mm	370	370
4.2	Height of mast, lowered		h, (mm)	1315 ⁷⁾	1407 7)
4.3	Free lift		h, (mm)	750 7)	750 7)
4.4	Lift		h ₃ (mm)	750 ⁷⁾	750 7)
4.5	Height of mast, extended		h ₄ (mm)	13987)	1490 7)
4.6	Initial lift	(± 5 mm)	h _s (mm)	125	125
4.8	Height of seat	(mini/maxi)	h ₂ (mm)	900/1000	900/1000
4.9	Height of tiller arm in operating position, min/max	(mini/maxi)	h ₁₄ (mm)	1140 / 1190	1140/1190
4.15	Fork height, lowered	(maxi)	h ₁₃ (mm)	95	95
4.19	Overall length / (platform folded)	(± 5 mm)	I, (mm)	3865 5)	3965 5)
4.20	Length to fork face (platform low/high position)	(± 5 mm)	I, (mm)	1504 5)	1504 5)
4.20	Overall width	(± 5mm)	b ₁ /b ₂ (mm)	790	790
4.21	Fork dimensions	(± 511111)	s/e/l (mm)	95 x 205 x 1200	95 x 205 x 1250
	Load arms dimensions				
4.23		Mini (mayi (u Emm)	s/e/l (mm)	60 x 165 x 2350	60 x 165 x 2450
4.24	Width of fork carriage	Mini/maxi (± 5 mm)	b ₃ (mm)	780	780
4.25	Fork spread, min/max	Mini/maxi (± 5 mm)	b _s (mm)	575	575
4.26	Load arms spread, min/max	Mini/maxi (± 5 mm)	b₄ (mm)	535	535
4.32	Ground clearance, centre of wheelbase		m ₂ (mm)	5	5
4.33	Aisle width for pallets 1000x1200 along forks	(± 20 mm)	A _{st} (mm)	4278 5)	4378 5)
4.34	Aisle width for pallets 800x1200 along forks	(± 20 mm)	A _{st} (mm)	4220 5)	4320 5)
4.35	Turning radius	(± 20 mm)	W _a (mm)	3277 5)	3377 5)
5.1	Travel speed (foreward), with/without load	(± 5%)	km/h	10/12	10/12
	Travel speed (backwards), with/without load	(± 5%)	km/h	8/8	8/8
5.2	Lifting speed, with/without load	(± 10 %)	m/s	0.11/0.2	0.11/0.2
	Lifting speed (initial lift), with/without load	(± 10 %)	m/s	0.06/0.08	0.06/0.08
5.3	Lowering speed, with/without load	(± 10 %)	m/s	0.3/0.3	0.3/0.3
	Lowering speed (initial lift), with/without load	(± 10 %)	m/s	0.07/0.07	0.07/0.07
5.7	Climbing ability, with / without load (30 minutes rating)		%		
5.8	Maximum climbing ability, with/without load (5 minutes rating)		%		
5.9	Acceleration time, with / without load	(d = 10 m)	S		
5.10	Service brake	. ,		electro-hydraulic	electro-hydraulio
 6.1	Drive motor, rating S, 60 min		kW	3	3
6.2	Lift motor, rating at S_3 : 15%		kW	1.7	1.7
0.2	Lift motor, rating at S_{3} : 10 %		kW	2.1	2.1
6.3	Battery type according to the norm DIN 43 $531/35/36$ A,B,C, no	(except LI-ION)	KT	3 PZS SL	3 PZS SL
6.4	Battery voltage / nominal capacity K5		V/Ah		
0.4			v / All	24/375	24/375
	Battery voltage / nominal capacity K5 (Li-ION 205 Ah)			23/205	23/205
	Battery voltage/nominal capacity K5 (Li-ION 410 Ah)		ko	23/410	23/410
	Battery weight (3PZS SL)		kg	295	295
	Battery weight (Li ION 205Ah)	(± 10 %)	kg	312	312
	Battery weight (Li ION 410 Ah)	(± 10 %)	kg	351	351
6.6	Battery consumption according to VDI cycle		kwh/h	0.97	0.97
	Type of drive control (AC Controller)			LAC	LAC
 8.1 8.4	Noise level at operator's ear according to DIN 12053	(± 5 dB(A))	dB (A)	< 70	< 70

4) With battery line 6.5

⁸⁾ Single Load Wheels

STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

OPTIONAL EQUIPMENT

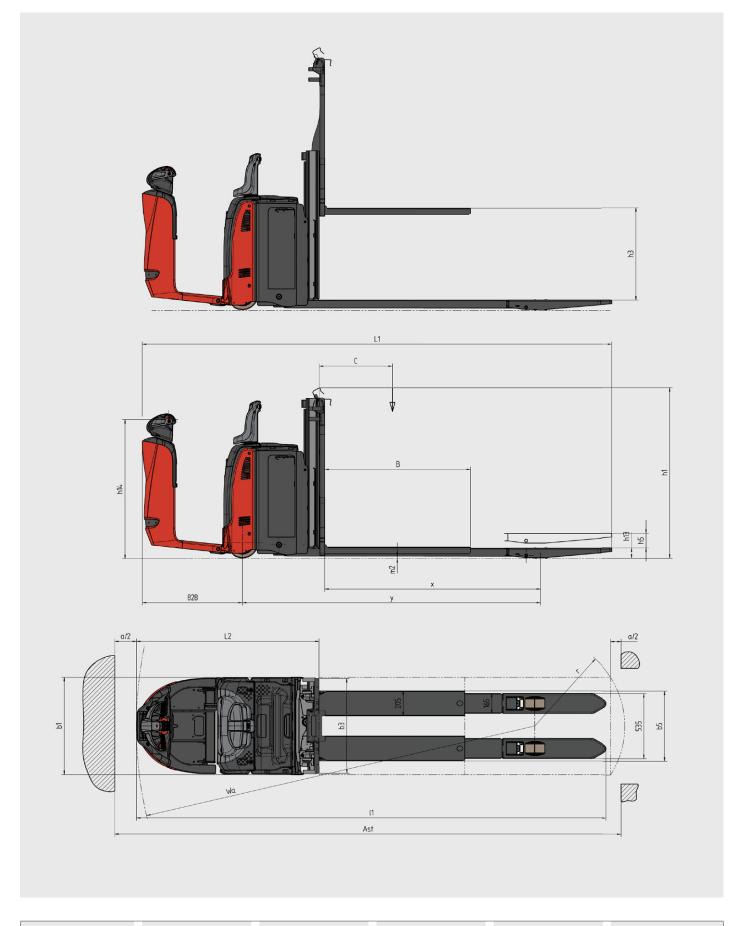
Backlit multifunction display	Various fork lengths, from 2350 mm to 2500 mm		
Truck activated by unique pin or by ignition key	(width 535 mm; overhang 588 mm)		
Safe operator compartment with cushioned full-suspension platform	Various Simplex mast from 750 mm to 1612 mm lift height		
Workstation incorporating storage compartments	Load backrest		
Clipboard	Pallet locking system		
Adjustable backrest	Adjustable Linde control handlebars		
Power-assisted steering, with a proportional steering resistance	Inching buttons forward/backward		
Self-centering	Feet protection		
Positive steering (drive wheel) feedback	Front bow (for computer terminal)		
Automatic speed reduction when cornering	Support for data terminal on the bow (front)		
Linde OptiLift® Control	Drive wheel: polyurethane, cushion non-marking or wet grip		
Handlebars	Soft landing of forks carriage		
Tandem polyurethane load wheels	Stop landing at 300 mm		
Mast safety screen (polycarbonate or mesh)	Cold store protection -35°C (in/out)		
Electric horn	Speed reduction when the forks are lowered		
Protection -10° C	Initial lift 125mm with load leg capacity 2000kg		
4 wheels contact points	Other options available on request		
Roller track chassis for side battery change	 Linde Connected Solutions:		
, · · 5 ·	ac: access control (PIN or RFID Dual)		
	an: usage analysis and dt: crash detection		

Data transfer Online Data transfer WIFI Bluetooth USB Stick Li-ION technology:

Li-ION charger:

4PzSL compartment: 4.5kWh - 9kWh (205Ah - 410Ah)

24V-Charger v255: 4.5 kWh (full charging time 1h30 min) - 9.0 kWh (2h40 min)



N20 LoL	Mast type	750E	912E	1062E	1612E
h ₃	Lift	750	912	1062	1612
h ₃ + h ₁₃	Lift + fork height	840	1000	1150	1700
h,	Height mast lowered	1320	1465	1515	2065
h ₄	Height mast extended	1398	1465	1582	2132
h2	Free lift	750	912	979	1545





FEATURES

Driving system

- → Four-point contact configuration for maximum stability
- \rightarrow Maximum speed 10 km/h laden, 12 km / h unladen
- → Automatic regenerative braking as traction butterfly is released
- → Responsive counter-current braking when opposite travel direction selected
- → Electromagnetic braking on drive motor, actuated by deadman switch or emergency isolator is proportional to the load carried

Twin-grip handlebar

- \rightarrow Superbly functional twin-grip steering controller
- \rightarrow All controls ergonomically grouped on twin grip controller for convenient use by either hand
- \rightarrow Optimum protection for both hands
- → Twin-grip design minimizes operator's arm movements when turning

Load arms

- → Forklenght dimension of 2350 mm enables to carry two Euro pallets lenghtwise
- \rightarrow Initial lift of 125 mm for a better traction and enabling pallets carriage
- \rightarrow Special chassis design for maximum gradeability

Recovered forks

- \rightarrow Cutted forks tips for an easier pallet handling
- \rightarrow Forklength dimension of 1200 mm enables to carry one Euro pallet lengthwise
- → Freelift enables to pick at operator's height



OptiLift®

- → Located behind scoop seat
- \rightarrow The 60° OptiLift[®] control brings smoothness and precision and quiet in operation
- \rightarrow High performance, energy efficient, compact lift unit
- \rightarrow Capacity of 800 kg on free lift and 2x1000kg on initial lift



AC motor

- \rightarrow Powerful, high-torque 3kW AC
- → Drive motor
- → Moisture and dust-proof maintenance-free motor 12% gradeability performance fully laden
- \rightarrow Safe starting on gradients without rollback
- \rightarrow Responsive acceleration to maximum
- speed within 5 meters
- → Acceleration is adjustable to suit application



Pallet locking system

- → Ergonomic system to lock / unlock the empty pallet for the next picking
- → Two side handle and one central to lock the pallet according operator's position
- \rightarrow Side unlocking system for more efficiency

Subject to modification in the interest of progress. Illustrations and technical details could include options and not binding for actual constructions. All dimensions subject to usual tolerances



Linde Material Handling GmbH

Carl-von-Linde-Platz | 63741 Aschaffenburg | Germany Phone + 49 6021 99 0 | Fax + 49 6021 99 1570 www.linde-mh.com | info@linde-mh.com

Printed in Germany 773.e.0,5.0319.IndA.Ki.

Presented by: