



Linde Material Handling

Linde



ORDER PICKER N20 C D

CAPACITY 2000 KG | SERIES 4589

Safety

Lifting and lowering commands are located on the handles of the cushioned backrest to ensure that the driver is always looking at the forks whilst raising or lowering the forks. Initial lowering from the side of the truck is only possible with one foot on the platform, to ensure that no feet can be left under the load arms. The screen protection of the load backrest guarantees operator's protection from the load on the lifted forks.

Performance

Powered by a 3 kW AC motor and a lift motor of 2.2 kW, the N20 C D offers the possibility to prepare one pallet after the other or to pick on two different layers. With a top speed of 9 km/h with load, it also effectively enables simultaneous transport of two pallets. In addition, the raising platform option is designed to optimize occasional first and second level order picking.

Comfort

The Linde Steering Wheel guarantees effortless driving and manoeuvring. The mast control commands are conveniently located on both sides of the backrest. Both the steering column and the backrest

are adjustable. The N20 C D allows the operator to pick onto the pallet at an ergonomic height thus preventing back strain for the operator. The optional pneumatic damper protects the operator's body from shocks, especially when driving on rougher floors.

Reliability

The trucks are designed, built and tested for consistent reliability in demanding applications. The motor, sub-components such as lifting cylinders and electronics are all protected within the robust chassis structure. These features guarantee a longer operating life, whilst delivering safe, efficient, and productive load handling.

Service

Efficiency at work and when servicing with cost effective maintenance routines are important. With service intervals of up to 1000 hours and a computerized diagnostic system via CAN-bus, maintenance interventions are minimal and operating costs are reduced. Easy accessibility to all components thanks to the front panel and the maintenance free AC technology play an additional part in maximizing uptime.



Here you can find more content via your smartphone : [Linde Augmented Reality App](#)



TECHNICAL DATA

ACCORDING TO VDI 2198

Characteristics	1.1	Manufacturer		LINDE
	1.2	Manufacturer's type designation		N20 C D
	1.3	Drive		Electric
	1.4	Operator type		Stand-on
	1.5	Rated capacity / rated load	Q (t)	2.0 (1.2 on main lift)
	1.6	Load centre distance	c (mm)	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	944 / 816 ³⁾
	1.9	Wheelbase	y (mm)	2260 / 2132 ^{3) 4) 5)}
Weight	2.1	Service weight (including battery)	(kg)	1476
	2.2	Axle loading, laden front/rear	(kg)	1278 / 2198
	2.3	Axle loading, unladen front/rear	(kg)	1024 / 452
Wheels and tyres	3.1	Tyres		Polyurethane
	3.2	Tyre size, front		254 x 102
	3.3	Tyre size, rear		85 x 60
	3.4	Additional wheels (dimensions)		150 x 50
	3.5	Wheels, number front/rear (x=driven wheels)		1x - 1/4
	3.6	Tread, front	b ₁₀ (mm)	474
	3.7	Tread, rear	b ₁₁ (mm)	380
Dimensions	4.2	Height, mast lowered	h ₁ (mm)	see table in Linde World
	4.3	Free lift	h ₂ (mm)	see table in Linde World
	4.4	Lift	h ₃ (mm)	1580
	4.5	Height, mast extended	h ₄ (mm)	see table in Linde World
	4.6	Initial lift	h ₅ (mm)	130
	4.8	Stand height // Seat height (min/max)	h ₇ (mm)	130 ⁷⁾
	4.9	Height drawbar in driving position min./max.	h ₁₄ (mm)	1258 ⁸⁾
	4.10	Height of wheel arms	h ₈ (mm)	85
	4.14	Stand height, elevated (with lifting platform)	h ₁₂ (mm)	1182 / 1197 ⁹⁾
	4.15	Forks height, lowered	h ₁₃ (mm)	91
	4.17	Overhang	l ₅ (mm)	-
	4.19	Overall length	l ₁ (mm)	2653 ^{4) 5)}
	4.20	Length to face of forks	l ₂ (mm)	1503 ^{4) 5)}
	4.21	Overall width	b ₁ (mm)	800
	4.22	Fork dimensions	s / e / l	55 / 180 / 1150
	4.24	Fork-carriage width	b ₃ (mm)	711
	4.25	Distance between fork-arms	b ₅ (mm)	560
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	19 / 143 ³⁾
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	25 / 155 ³⁾
	4.34	Aisle width for for pallets 800 x 16 lengthways (forks raised)	A ₃₁ (mm)	-
	4.34.1	Aisle width for pallets 1000 x 1200 crossways (forks raised)	A ₃₁ (mm)	-
	4.34.2	Aisle width for pallets 800 x 1200 crossways (forks raised)	A ₃₁ (mm)	3067 ^{3) 4) 5)}
	4.35	Turning radius	W ₉ (mm)	2440 / 2313 ^{3) 4) 5)}
Performance	5.1	Travel speed laden/unladen	(km/h)	9 / 12
	5.1.1	Travel speed laden/unladen, backwards	(km/h)	8 / 10
	5.2	Lift speed laden/unladen	(m/s)	0.15 / 0.25
	5.3	Lowering speed laden/unladen	(m/s)	0.19 / 0.25
	5.8	Max. gradeability laden/unladen	(%)	8 % / 15 % (8.9 %; 7.1 %) ¹⁵⁾
	5.9	Acceleration time, laden/unladen	(s)	6.6 / 5.3
	5.10	Service brake		Electromagnetic
Drive	6.1	Drive motor, rating S2 = 60 min	(kW)	3
	6.2	Lift motor, rating at S3	(kW)	2.2 / 5 %
	6.3	Battery according to DIN 43531/35/36; A, B, C, no		no
	6.4	Battery voltage / nominal capacity K5	(V) / (Ah)	24 / 345 - 465
	6.5	Battery weight ± 5 %	(kg)	402
	6.6	Energy consumption according to VDI cycle	(kWh)	0.65 / 0.53 ¹⁶⁾
	6.7	Turnover output	(t/h)	-
	6.8	Energy consumption at turnover output	(kWh/h)	-
Others	8.1	Drive control		AC control
	10.7	Sound level at driver's ear	(dB(A))	< 70

³⁾ with load arms or forks raised

⁴⁾ with lifting platform + 50 mm

⁵⁾ with tray 4 PzS or Li-ION + 114 mm

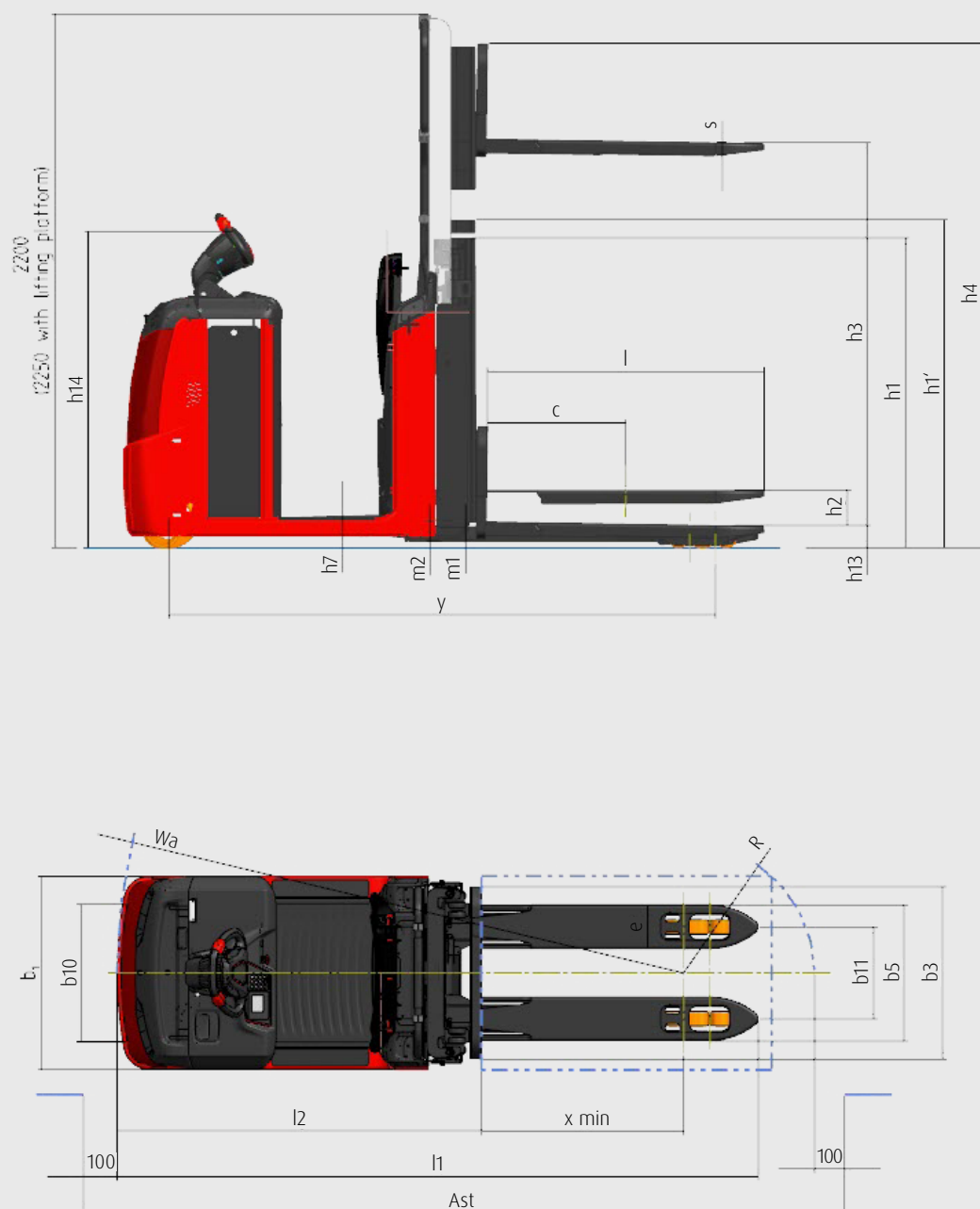
⁷⁾ with lifting platform option standard version + 15 mm; with lifting platform option damped version + 30 mm

⁸⁾ with lifting platform option standard version + 72 mm; with lifting platform option damped version + 87 mm; with tiller adjustment option, h14 setting range = + 89 mm / - 19 mm

⁹⁾ with lifting platform option standard / damped version

¹⁵⁾ in bracket: minimum geometric limit on unrounded edge slope without or with foot guard (if different); due to manufacturing and assembly tolerances, it is recommended to foresee a decrease in the nominal values of not less than 1 %

¹⁶⁾ with 1000 kg on mast and 1000 kg on initial lift at max initial lift height



MAST TABLES

	1580S
h_3	1580
$h_3 + h_{13}$	1671
h_1	1276
H_1	1351
h_4	2066
h_2	150

STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

Chassis width 800 mm
Rubber platform mat
Anti-slip stripes
Fixed cushioned and roundly shaped backrest equipped with handle
Power assisted steering, adjustable steering resistance
Polyurethane drive wheel
Single polyurethane load wheel greaseable
Single polyurethane castor wheel
Workstation with A4 clip integrated
Key switch or PIN code access
Multifunction colored display incl. hour meter, maintenance indication, battery discharge indicator and internal fault code indication
Mast controls integrated on backrest
3 kW AC drive motor (maintenance free)
2.2 kW (5 % rating output) lift motor
CAN-bus technology
Automatic speed reduction in curves
Initial lift electrical stop sensor
Mast lift pressure stop sensor
Speed reduction depending on mast lift height and load
Automatic breaking on releasing butterfly switch
Electromagnetic emergency brake acting proportionally to the load weight
Electric horn
Vertical battery change in 3 and 4 PzS
Protection -10° C

OPTIONAL EQUIPMENT

Drive wheels: cushion rubber, synthetic cushion rubber non marking, wet grip
Load wheels: tandem polyurethane greaseable
Castor wheels: tandem polyurethane and tandem polyurethane greaseable
Raising platform
Pneumatic damping of foot platform
Cushioned knee protection and foldable leg rest step
Height adjustable Linde Steering Wheel
Height adjustable cushioned backrest with foldable seating support
Dashboard with incorporated storage compartments
Inching control (forward only or forward/backward) and initial lift
Accessory supports
Support Clipboard DIN A4 and panoramic mirror
Support data terminal and power supply cable 24 V
Support for scanner and shrink wrap holder
Electric socket 12 V or USB plug
Other options available on request

Masts / Forks:

Width over fork carriage 560 mm with fork length 1150 mm
Standard mast with lift height up to 1580 mm
Speed reduction if forks lowered and soft landing on forks

Safety:

Front chassis protections
Load Backrest 1450 mm / 1700 mm
Linde BlueSpot™, Front LED-stripes, Flashing Beacon

Enviroment:

Cold store protection - 35° C

Linde Connected Solutions:

ac: access control (PIN or RFID Dual), an: usage analysis, dt: crash detection, tr: trouble code and hr: operating hours
Data transfer online and data transfer WiFi
Bluetooth USB Stick

Battery:

Lateral battery change 3 PzS / 4 PzS low available with an ergonomic battery un / locking with lever and rollers
Lateral battery change 3 PzS / 4 PzS high available with a simple battery un / locking system
Lateral battery change 3 PzS / 4 PzS for competitor batteries
Built-in charger for lead acid batteries

Li-ION technology:

4 PzS compartment with 4.5 kWh - 9 kWh (205 Ah - 410 Ah)
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Li-ION charger:

24 V-Charger v255: 4.5 kWh (full charging time 1 h 30 min) - 9.0 kWh (2 h 40 min)



FEATURES

Optimal load handling

- 2000 kg total load capacity, to handle two EUR pallets of 1000 kg each
- Up to 1200 kg on main lift
- High performance 2.2 kW lift motor
- Mast controls located on both sides of backrest
- Four points contact configuration for maximum stability on ground
- Traction speed of 9 km/h loaded and 12 km/h unloaded



Productivity at the second level

- Raising platform option to optimize occasional first and second level picking
- Optional pneumatic damper for optimum comfort
- Wide access of 428 mm
- OptiLift® systems ensures proportional lift and lowering of platform and quiet operation
- Platform lifting command intuitively placed on Linde Steering Wheel for single-hand operation
- Platform lowering with foot switch

Easy manoeuvring

- Intuitive Linde Steering Wheel, with all functions (horn, initial lift, traction butterflies) easily accessible without losing grip ensures one-hand operation
- Ergonomic and safe driving position
- Self centering steering for faster picking cycles



Workstation

- Wide, easy access, from either side
- Numerous storage compartments, maximized with optional dashboard for increased storage
- Various optional accessories designed to streamline picking
- Pedestrian command for traction and initial lift



Work in comfort

- Wide platform access of 418 mm and low step in height of 130 mm
- Damped mat or pneumatic damper for reduced vibration levels
- Height adjustable Linde Steering Wheel
- Cushioned, rounded-shape backrest, also available with height adjustment with foldable seating support
- Optional cushioned knee protection



Service Efficiency

- Integrated CAN-bus diagnostic system for faster analysis and shorter service intervals
- All truck parameters are configurable by service technician to suit each individual application
- Rapid and convenient access to main components via front service panel
- Electronic management of all components permitting quick and easy diagnosis

Efficient drive system

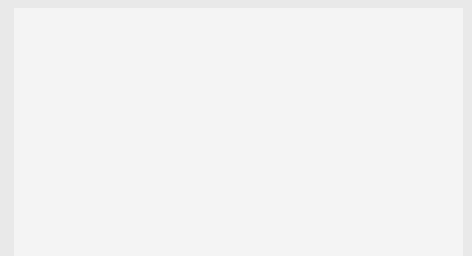
- Powerful, high-torque 3 kW AC drive motor
- Moisture and dust-proof maintenance-free motor with up to 8 % gradeability performance fully loaded
- Safe starting on gradients without rollback
- Effortless proportional electric power steering with positive feedback
- Automatic speed reduction when cornering

Energy for your activity

- Vertical change as standard, optional side change
- Wide range of batteries (low and high) from 345 Ah (3 PzS) to 620 Ah (4 PzS)
- Battery compartments dedicated for competitor batteries
- Ergonomic lever on low batteries
- Li-ION batteries available

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.

Presented by:



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