

STANDARD AND OPTIONAL EQUIPMENT

Model/Equipment		N20 B	N20	N25	N20 HP	N25 HP
Safety	Front casted steel bumper	●	●	●	●	●
	Front rubber protection (mounted on the casted steel bumper)	○	○	○	○	○
	Linde BlueSpot™	○	○	○	○	○
	Automatic speed reduction when cornering	●	●	●	●	●
	Front feet protection	○	○	○	○	○
	Key switch	●	●	●	●	●
Service	Log in PIN code	○	○	○	○	○
	CAN bus technology	●	●	●	●	●
Digitalisation	Linde connect	○	○	○	○	○
	ac: access control PIN	○	○	○	○	○
	ac: access control RFID	○	○	○	○	○
	Data transfer Wifi	○	○	○	○	○
	Data transfer Online	○	○	○	○	○
	dt: crash detection	○	○	○	○	○
	an: usage analysis	○	○	○	○	○
	Bluetooth USB Stick	○	○	○	○	○
Operation / Load Handling	dt: trouble codes	○	○	○	○	○
	Inching control (forward only or forward / backward)	○	○	○	○	○
	Rear initial lift control	○	○	○	○	○
	Low Speed if initial lift low	○	○	○	○	○
	Initial lift electrical stop sensor	●	●	●	●	●
	Load backrest 1200 mm and 1800 mm	○	○	○	○	○
Environment	Cold store -35°C (in / out)	○	○	○	○	○
	Fully suspended operator compartment	—	●	●	●	●
Workplace	Height adjustable Linde Steering Wheel	—	○	○	○	○
	Basic rounded display	●	—	—	—	—
	Multifunction coloured display hourmeter, maintenance indication, battery discharge indicator and internal fault code indication	—	●	●	●	●
	Fixed roundly-shaped backrest	●	○	○	○	○
	Height adjustable backrest incl. foldable seating support	—	○	○	○	○
	Front bow	○	○	○	○	○
	Rear accessory supports	○	○	○	○	○
	Support data terminal and power supply cable 24 V	○	○	○	○	○
	Support clipboard DIN A4 and support for scanner	○	○	○	○	○
	Shrink wrap pole and rear bin	○	○	○	○	○
	Flashing beacon and working lamp	○	○	○	○	○
	Rear lower storage	○	○	○	○	○
Attachment / Forks	Fork carriage: 520 mm, 540 mm, 560 mm, 680 mm	○	○	○	○	○
	Fork length: ≤ 1600 mm	○	○	—	○	—
	Fork length: > 1600 mm	○	○	○	○	○
	Overhang: 188 mm, 388 mm	○	○	—	○	—
	Overhang: 563 mm, 588 mm	○	○	○	○	○
Axles and Tyres	Drive wheel polyurethane	●	●	●	●	●
	Drive wheel cushion rubber, non marking and wet grip	○	○	○	○	○
	Single load wheels polyurethane	●	●	—	●	—
	Single load wheels (greasable) polyurethane	○	○	—	○	—
	Tandem load wheels polyurethane (greasable)	○	○	○	○	○
	Standard castor wheel	●	●	●	—	—
	Castor wheel with spring and cylinder	—	—	—	●	●
	Hydraulic castor wheels	—	—	—	○	○
Drive and Brake System	Power assisted steering	●	●	●	●	●
	3 kW AC motor (maintenance free)	●	●	●	●	●
	Electromagnetic braking system	●	●	●	●	●
	Battery compartment, vertical change 3 PzS (345 Ah/375 Ah) and 4 PzS (460 Ah/500 Ah)	●	●	●	●	●
	Battery compartment, side change 3 PzS (345 Ah/465 Ah), incl. ergonomic lever and metal rollers	○	○	○	○	○
	Battery compartment, side change 4 PzS (460 Ah/620 Ah), incl. ergonomic lever and metal rollers	○	○	○	○	○
	Battery compartment, Li-ION battery 4.5 kWh (205 Ah)/9.0 kWh (410 Ah) incl. side plug for opportunity charging	○	○	○	○	○
LI-ION 24 V-Charger	○	○	○	○	○	

● Standard equipment ○ Optional equipment — Not available



Order Picker

N20 B | N20-25 | N20-25 HP

Capacity 2.0 – 2.5 t | Series 1115

Flexible all-rounder for order picking

- Operator's platform in front of the battery ensures maximum maneuverability and a clear view of the warehouse environment
- Small turning circle facilitates excellent maneuvering in narrow aisles
- Powerful 3 kW three-phase AC motor allows fast acceleration up to 14 km/h
- Fully suspended operator's platform reduces vibrations and shocks while driving

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



CHARACTERISTICS



Linde BlueSpot™ and front LED light

Safety

- The special position of the operator's platform in front of the battery enables the operator to have the best possible view of the surroundings and to react quickly to dangerous situations
- Front LED and optional Linde BlueSpot™ provide additional safety in the warehouse by visually announcing the vehicle
- Three-part brake system adapts flexibly to both the environment and the load weight



Height adjustable backrest with foldable seating support

Ergonomics

- Operator's platform with low access for easy boarding and disembarking
- Driver's platform suspension compensates for vibrations and jolts while driving
- Height adjustable backrest with foldable seating support offers relieve to operators during long transfers
- When reversing, a handle behind the backrest provides additional support
- Many storage compartments provide space for equipment and personal items



Intuitive Linde steering wheel

Handling

- 3 kW three-phase AC motor for effective acceleration to top speeds of up to 14 km/h
- Linde steering wheel and all integrated controls can be operated intuitively with just one hand
- Symbols on the control elements clearly indicate the functions
- Depending on application requirements, lead-acid or optionally lithium-ion batteries are available
- Multifunctional display informs about the current charge status of the order picker
- Initial lift facilitates transport over ramps and uneven surfaces



Front casted steel bumper

Service

- Up to 1000 operating hours without service check
- Maintenance-free three-phase AC technology and adjustment-free brakes reduce service costs
- Service components easily accessible after removal of a service panel
- Essential vehicle parameters can be read out via CAN bus connection via laptop
- Robust cast-steel bumper on the front protects the operator's compartment and reduces collision damage

Presented by:



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STANDARD AND OPTIONAL EQUIPMENT

Model/Equipment	N20 B SA	N20 SA	N25 SA	N20 C SA	N25 C SA
Safety					
Front casted bumper with integrated safety scanner	●	●	●	●	●
Low-mounted high level safety scanner	●	●	●	●	●
Automatic speed reduction when cornering	●	●	●	●	●
Lighting pole (mounted on rear accessory support)	●	●	●	●	●
Linde BlueSpot™	○	○	○	○	○
Front LED light	○	○	○	○	○
Additional emergency buttons located in the rear part	●	●	●	●	●
Key switch	●	●	●	●	●
Log in PIN code	○	○	○	○	○
Operation / Load Handling					
Follow-me function with walk-with-me mode	●	●	●	●	●
Stop&Go function with continuous driving mode	●	●	●	●	●
Rear initial lift control	○	○	○	○	○
Initial lift electrical stop sensor	●	●	●	●	●
Low speed if initial lift low	○	○	○	○	○
Load backrest	○	○	○	○	○
Remote control	○	○	○	○	○
Remote control charger	○	○	○	○	○
Digitalisation					
Linde connect: desk	○	○	○	○	○
ac: access control (PIN or RFID)	○	○	○	○	○
dt: crash detection	○	○	○	○	○
an: usage analysis	○	○	○	○	○
Linde connect: cloud	○	○	○	○	○
Basic Package (trouble codes, operating hours, truck mapping)	○	○	○	○	○
Data Transmission (WiFi or Online)	○	○	○	○	○
Workplace					
Fully suspended operator compartment	—	●	●	—	—
Damped platform option	—	—	—	○	○
Height adjustable Linde Steering Wheel	○	○	○	○	○
Knee protection	●	●	●	○	○
Basic rounded display	●	—	—	—	—
Multifunction coloured display hour meter, maintenance indication, battery discharge indicator and internal fault code indication	—	●	●	●	●
Height adjustable backrest including foldable seating support	○	○	○	○	○
Accessory support front	○	○	○	○	○
Accessory support rear (includes central pole for N20 series)	●	●	●	●	●
Support data terminal and power supply cable 24 V	○	○	○	○	○
Support clipboard DIN A4 and support for scanner	○	○	○	○	○
Shrink wrap pole	○	○	○	○	○
Rear lower storage	○	○	○	—	—
Attachment / Forks					
Fork carriage up to 680 mm (depending on model)	○	○	○	○	○
Fork length up to 3100 mm (depending on model)	○	○	○	○	○
Overhang up to 975 mm (depending on model)	○	○	○	○	○
Axles and Tyres					
Drive wheel Heavy Duty	●	●	●	●	●
Drive wheel High Grip	○	○	○	○	○
Single/ tandem load wheels polyurethane (greasable)	○	○	○	○	○
Standard castor wheel	●	●	●	●	●
Drive and Brake-System					
Power assisted steering	●	●	●	●	●
3 kW AC motor (maintenance free)	●	●	●	●	●
Electromagnetic braking system	●	●	●	●	●
Battery compartment, vertical change 3 PzS (300 Ah/375 Ah) and 4 PzS (480 Ah/620 Ah)	—	—	—	●	●
Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4PzS (460 Ah/500 Ah), including ergonomic lever and metal rollers	●	●	●	○	○
Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS (460 Ah/620 Ah), including ergonomic lever and metal rollers	○	○	○	○	○
Battery compartment, Li-ION battery (205 Ah/410 Ah) including side plug for opportunity charging	○	○	○	○	○
Li-ION 24 V-Chargers	○	○	○	○	○
Service					
CAN bus technology	●	●	●	●	●
Rack configurations and End-of-an aisle stop adjustments	●	●	●	●	●

● Standard equipment ○ Optional equipment — Not available



Order Picker

SEMI-AUTOMATED

Capacity 2.0–2.5 t | Series 1115–4587

Productive co-drivers

- Semi-automated driving modes increase picking efficiency by up to 20 percent
- Eliminating the need to step on and off the vehicle reduces operator walking distances
- Increased operator concentration increases picking performance and reduces errors
- Two driving modes „walk with me“ and „continuous“ cover most customer applications
- More efficient through partial automation without having to change existing processes

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



Linde Material Handling



CHARACTERISTICS



Linde BlueSpot™ and bumper including safety scanner

Safety

- Various safety systems prevent personal accidents and collisions in semi-automated operation
- Safety scanner at the front of the vehicle also detects obstacles that suddenly appear in front of the order picker
- Four antennas determine the relative position of the operator
- Special protection on the bumper prevents feet from getting under the vehicle
- Pole-mounted lights indicate current driving mode and warn when remote control and vehicle are not coupled
- Vehicle independently maintains distance from racking and stops at the end of the aisle to prevent accidents



Ergonomic remote

Ergonomics

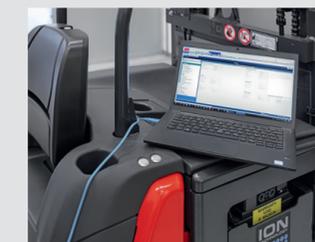
- Semi-automated operation eliminates the need to repeatedly step on and off the vehicle and prevents fatigue
- Activation of the semi-automated modes is intuitive, safe and easy via remote control
- In „walk with me“ mode, the operator can choose from three different positions that activate the vehicle's onward travel to provide the ideal walking path to the pallet



Walk with me or Stop and Go function

Handling

- In „walk with me“ mode, the vehicle follows the operator while picking on one side of the rack, eliminating the walk from the operator's platform to the pallet
- In „continuous“ mode, the drive is activated via the remote control and enables convenient order picking on both sides of the rack
- Ultra-wideband connection between the vehicle and the remote control ensures precise localization of the operator and exact reaction of the vehicle to the operator's movements
- Semi-automatic operation is deactivated as soon as the operator drives the vehicle himself



Computerized diagnostic

Service

- Easy cleaning of the safety scanner
- Vehicle display, lamp post and laser display always provide information on current vehicle status
- Linde diagnostic tool and CAN bus connection enable simple diagnostics in the event of a repair
- Simple setup of the semi-automatic system to application conditions such as aisle width or rack length

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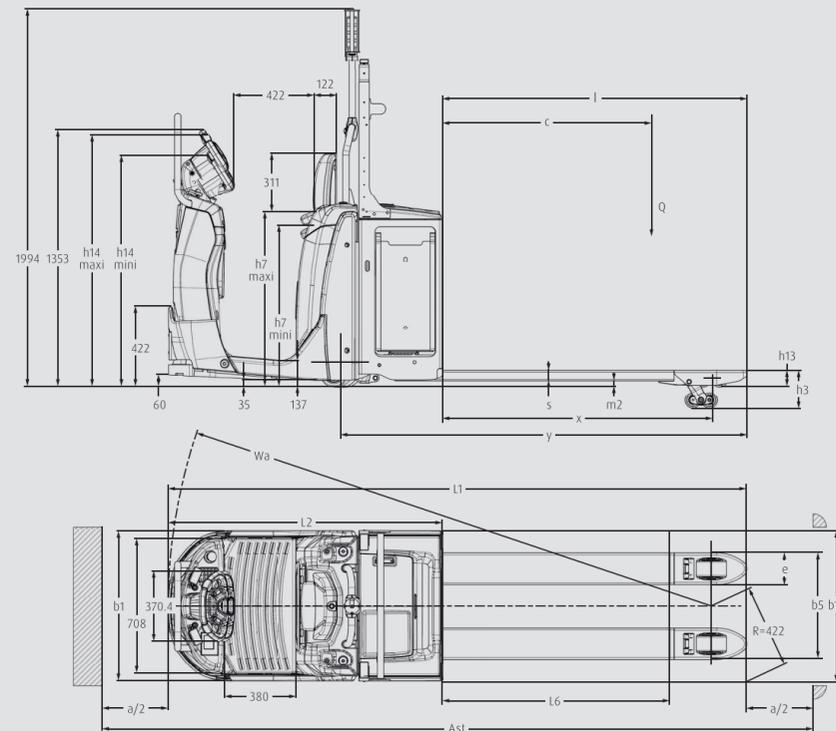
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TECHNICAL DATA (According to VDI 2198)

Characteristics	LINDE					
	N20 B SA	N20 SA	N25 SA	N20 C SA	N25 C SA	
1.1 Manufacturer	LINDE					
1.2 Manufacturer's type designation	N20 B SA	N20 SA	N25 SA	N20 C SA	N25 C SA	
1.2a Series	1115-00	1115-00	1115-00	4587	4587	
1.3 Power unit	Battery	Battery	Battery	Battery	Battery	
1.4 Operation	Order Picker	Order Picker	Order Picker	Order picker	Order picker	
1.5 Load capacity/Load	Q (t)	2.0	2.0	2.5	2.5	
1.6 Load centre distance	c (mm)	600	600	1200	1200	
1.8 Axle centre to fork face	x (mm)	900/970 ¹²⁾	900/970 ¹²⁾	1.775/1.845 ¹²⁾	1.615 ¹⁶⁾	
1.9 Wheelbase	y (mm)	2.609/2.717 ²⁾³⁾⁴⁾	2.609/2.717 ²⁾³⁾⁴⁾	2.609/2.717 ²⁾³⁾⁴⁾	2.717 ¹⁶⁾¹⁵⁾	
2.1 Service weight	(kg)	953 ¹³⁾	953 ¹³⁾	996 ¹³⁾	1268 ¹⁶⁾	
2.2 Axle load with load, front/rear	(kg)	1.303/1.650 ¹³⁾	1.303/1.650 ¹³⁾	1.503/1.993 ¹³⁾	1.210/2.058	
2.3 Axle load without load, front/rear	(kg)	821/132 ¹³⁾	821/132 ¹³⁾	841/155 ¹³⁾	987/281	
3.1 Tyres rubber, SE, pneumatic, polyurethane	R+P/P	R+P/P	R+P/P	P/P	P/P	
3.2 Tyre size, front		Ø 254 × 102				
3.3 Tyre size, rear		Ø 85 × 80				
3.4 Auxiliary wheels (dimensions)		2x Ø 140 × 50	2x Ø 140 × 50	2x Ø 140 × 50	Ø 150 × 50	
3.5 Wheels, number front/rear (x = driven)		1x + 1/2 (1x + 1/4) ⁶⁾	1x + 1/2 (1x + 1/4) ⁶⁾	1x + 1/2 (1x + 1/4) ⁶⁾	1x - 1/4	
3.6 Track width, front	b10 (mm)	491 ²⁾	491 ²⁾	491 ²⁾	474	
3.7 Track width, rear	b11 (mm)	355 (375/395/515) ²⁾	355 (375/395/515) ²⁾	355 (375/395/515) ²⁾	348 (368/388/498)	
4.4 Lift	h3 (mm)	115	115	115	130	
4.8 Seat height relating to SIP/stand height	h7 (mm)	-	-	-	130	
4.9 Height drawbar in driving position min./max.	h14 (mm)	-	-	-	1258 ¹⁶⁾	
4.15 Height, lowered	h13 (mm)	85 ⁷⁾	85 ⁷⁾	85 ⁷⁾	85	
4.19 Overall length	l1 (mm)	2.500 ²⁾⁸⁾	2.500 ²⁾⁸⁾	3.750 ²⁾⁸⁾	3.860 ¹⁶⁾	
4.20 Length to fork face	l2 (mm)	1.350 ²⁾⁸⁾	1.350 ²⁾⁸⁾	1.350 ²⁾⁸⁾	1.470 ¹⁶⁾	
4.21 Overall width	b1/b2 (mm)	790 ²⁾	790 ²⁾	790 ²⁾	822	
4.22 Fork dimensions DIN ISO 2331	s/e/l (mm)	55 × 165 × 1.150 ²⁾	55 × 165 × 1.150 ²⁾	55 × 165 × 2.400 ²⁾	61 (78 max)/172/2390	
4.25 Fork spread	b5 (mm)	520 (540/560/680) ²⁾	520 (540/560/680) ²⁾	520 (540/560/680) ²⁾	520 (540/560/670)	
4.32 Ground clearance, centre of wheelbase	m2 (mm)	160/30 ¹⁹⁾	160/30 ¹⁹⁾	160/30 ¹⁹⁾	24/154 ¹⁷⁾	
4.33 Load dimension b12 × l6	b12 × l6 (mm)	800 × 1.200	800 × 1.200	2 × 800 × 1.200	-	
4.34 Aisle width predetermined load dimensions	Ast (mm)	2.950 ⁹⁾¹⁰⁾¹¹⁾	2.950 ⁹⁾¹⁰⁾¹¹⁾	4.067 ⁹⁾¹⁰⁾¹¹⁾	See table in linde world	
4.34.1 Aisle width for pallets 1000 × 1200 crossways (fork raised)	Ast (mm)	-	-	-	See table in linde world	
4.34.2 Aisle width for pallets 800 × 1200 crossways (forks raised)	Ast (mm)	-	-	-	See table in linde world	
4.35 Turning radius	Wa (mm)	2.250/2.320 ⁹⁾⁴⁾	2.250/2.320 ⁹⁾⁴⁾	3.125/3.195 ⁹⁾⁴⁾	3083 ¹⁶⁾ /2975 ¹⁶⁾¹⁵⁾¹⁷⁾	
5.1 Travel speed, with/without load	(km/h)	10/12 ¹⁰⁾	10/12 ¹⁰⁾	10/12 ¹⁰⁾	9/12 ¹⁶⁾	
5.1.1 Travel speed, with/without load, backwards	(km/h)	10/10 ¹⁰⁾	10/10 ¹⁰⁾	10/10 ¹⁰⁾	8/11	
5.1.2 Travel speed, with/without load, backwards	(km/h)	6	6	6	6	
5.2 Lifting speed, with/without load	(m/s)	0.060/0.070 ¹⁹⁾	0.060/0.070 ¹⁹⁾	0.060/0.070 ¹⁹⁾	0.070/0.111	
5.3 Lowering speed, with/without load	(m/s)	0.060/0.080 ¹⁹⁾	0.060/0.080 ¹⁹⁾	0.060/0.080 ¹⁹⁾	0.084/0.067	
5.8 Maximum climbing ability, with/without load	%	16.0/13.0	16.0/13.0	14.0/13.0	7.0/12.0 ¹⁹⁾²⁰⁾	
5.9 Acceleration time, with/without load	s	5.8/4.5	5.8/4.5	5.8/4.5	6.1/4.8	
5.10 Service brake		Electric/hydraulic	Electric/hydraulic	Electric/hydraulic	Electromagnetic	
6.1 Drive motor rating S2 60 min	(kW)	3	3	3	3	
6.2 Lift motor rating at 53 15 %	(kW)	1.2/15%	1.2/15%	1.5/15%	2.2/5%	
6.3 Battery according to DIN 43531/35/36 A, B, C, no		43 535/3 Pz5	43 535/3 Pz5	43 535/3 Pz5	no	
6.4 Battery voltage/rated capacity (5 h)	(V)/(Ah)	24/345-375	24/345-375	24/345-375	24/345 - 465	
6.5 Battery weight (± 5 %)	(kg)	272/315 ⁹⁾¹⁸⁾	272/315 ⁹⁾¹⁸⁾	272/315 ⁹⁾¹⁸⁾	402	
6.6 Power consumption according to VDI cycle (EN 16796 *)	(kWh/h)	0.5	0.5	0.48	0.48*	
6.6.1 CO ₂ equivalent emissions	(kg/h)	-	-	-	0.2	
6.7 Turnover output according to VDI 2198	(t/h)	136.0	136.0	162.5	129.0	
6.8 Turnover efficiency according to VDI 2198	(kwh/h)	1.46	1.46	1.43	1.9	
8.1 Type of drive unit		LAC	LAC	LAC	AC control	
10.7 Sound pressure level LpAZ (at the driver's seat)	(dB(A))	< 85	< 85	< 85	< 70	

- N20 SA (1115)**
- Forks upraised/lowered
 - (± 5 mm)
 - With/without Initial lift
 - Values for 3 PzS batteries. 4 PzS battery = tabled values + 100 mm
 - (± 10%)
 - Figures in parenthesis with tandem load wheels
 - (-0/+5 mm)
 - ± 0 mm = 3 PzS lateral; +100 mm = 3 PzS vertical and 4 PzS lateral; +150 mm = 4 PzS vertical.
 - (± 2 mm)
 - Including a 200 mm (min.) operating aisle clearance.
 - Forks upraised
 - (± 5%)
 - Min./max.
 - With forks length 2390 mm/x = 1615 mm/pull bar version; for other forks dimension see table below
 - With tray 4 Pz or Li-Ion + 114 mm
 - With tiller adjustment option, h14 setting range = +89 mm/-19 mm
 - With load arms or forks raised
 - Traction speed unladen until 14 km/h available as optional
 - On rounded edge slope with forks/arms raised, if possible
 - For the geometric limit on unrounded edge slope, see table below

N20 SA



N20 C SA

