

ORDER PICKER N20 C B | N20-25 C | N25 C HP

CAPACITY 2000 KG - 2500 KG | SERIES 4587

Safety

The design of the order picker ensures that the operator remains within the truck contours at all times and the rounded shape of the cushioned backrest ensures his comfort. The high front steel bumper ensures also safety for both the operator and the machine. Furthermore, the truck immediately comes to a stop as soon as the travel butterfly is released for optimum safety.

Performance

Powered by a 3 kW AC motor, the N20-N25 C and N25 C HP are able to reach a top speed of 14 km/h, making long transfers highly productive. The inching command ensures efficiency in the picking operation. In addition, the rising platform option is designed to optimize occasional first and second level order picking. A wide range of batteries, including Li-ION technology are available to match any customer application.

Comfort

A perfect interface between operator and truck is assured with the new height adjustable Linde Steering Wheel which guarantees effortless driving and manoeuvring. A wide operator's compartment and low step-in height ensures efficient picking from either side while 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 and electronics are all protected within the robust chassis structure, which can be further reinforced by different front chassis protection options. 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.



TECHNICAL DATA

ACCORDING TO VDI 2198

	1.1	Manufacturer		LINDE	LINDE	
	1.2	Manufacturer's type designation		N20C B	N20C	
tics	1.3	Drive		Electric	Electric	
nt Characteristics	1.4	Operator type		Stand-on	Stand-on	
	1.5	Rated capacity / rated load	Q (t)	2.0	2.0	
	1.6	Load centre distance	c (mm)	1200	1200	
	1.8	Load distance, centre of drive axle to fork	x (mm)	1615 ²⁾	1615 ²⁾	
	1.9	Wheelbase	y (mm)	2720 2) 4)	2717 2) 4)	
	2.1	Service weight (including battery)	(kg)	1178 2)	1178 ²⁾	
Weight	2.2	Axle loading, laden front/rear	(kg)	1120/2058	1120/2058	
Ň	2.3	Axle loading, unladen front/rear	(kg)	897/281	897/281	
	3.1	Tyres		Polyurethane	Polyurethane	
/res	3.2	Tyre size, front		230 x 90	254 x 102	
Wheels and tyres	3.3	Tyre size, rear		85 x 100	85 x 100	
an	3.4	Additional wheels (dimensions)		150 x 50	150 x 50	
els	3.5	Wheels, number front/rear (x=driven wheels)		1x - 1/2	1x - 1/2	
vhe	3.6	Tread, front	b ₁₀ (mm)	478	474	
>	3.7	Tread, rear	b ₁₁ (mm)	348 (368/388/498)	348 (368/388/498)	
	4.2	Height, mast lowered	h, (mm)	-	-	
	4.3	Free lift	h ₂ (mm)	-	-	
	4.4	Lift	h ₃ (mm)	130	130	
	4.5	Height, mast extended	h ₄ (mm)			
	4.6	Initial lift	h _s (mm)	-	-	
	4.8	Stand height // Seat height (min/max)	h ₇ (mm)	130 7)	130 (7)	
	4.9	Height drawbar in driving position min./max.	h ₁₄ (mm)	1258 ⁸⁾	1258 (8)	
	4.10	Height of wheel arms	h _s (mm)	-	-	
	4.14	Stand height, elevated (with lifting platform)	h ₁₂ (mm)	1182/1197 ⁹⁾	1182/1197 (9)	
S	4.15	Forks height, lowered	h ₁₃ (mm)	85	85	
sior	4.17	Overhang	l _s (mm)	-	-	
Dimensions	4.19	Overall length	l ₁ (mm)	3680 4)	3680 (4)	
Dir	4.20	Length to face of forks	l ₂ (mm)	1290 4)	1290 (4)	
_	4.21	Overall width	b ₁ (mm)	800	800	
	4.22	Fork dimensions	s/e/l	61 (78 max)/172/2390	61 (78 max)/172/2390	
	4.24	Fork-carriage width	b ₃ (mm)	-	-	
	4.25	Distance between fork-arms	b₅ (mm)	520 (540/560/670)	520 (540/560/670)	
	4.31	Ground clearance, laden, below mast	(mm)	-	-	
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	24/1543)	24/154 (3)	
	4.34	Aisle width for for pallets 800 x 16 lengthways (fork raised)	A _{st} (mm)	see table in Linde World	see table in Linde World	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways (fork raised)	A _{st} (mm)		see table in Linde World	
		Aisle width for pallets 800 x 1200 crossways (fork raised)	A _{st} (mm)	see table in Linde World 2893 ²⁾ / 2786 ^{2) 3) 4) ⁵⁾}	see table in Linde World 2893 ²⁾ / 2786 ^{2) 3) 4) ⁵⁾}	
	4.35 5.1	Turning radius Travel speed laden/unladen	W _a (mm) (km / h)	8/10	9/12 11)	
	5.1.1	Travel speed laden/unladen	(km/h)	7/10	8/11	
Performance	5.2	Lift speed laden/unladen	(m / s)	0.070/0.111	0.070/0.111	
Em.	5.3	Lowering speed laden/unladen	(m / s)	0.084/0.067	0.084/0.067	
rfor	5.8	Max. gradeability laden/unladen	(%)	7 % / 12 % 13) 14)	7 % / 12 % ^{13) 14)}	
Ре	5.9	Acceleration time, laden/unladen	(5)	6.5/5.1	6.1/4.8	
	5.10	Service brake		Electromagnetic	Electromagnetic	
	6.1	Drive motor, rating S2 = 60 min	(kW)	2.3	3	
	6.2	Lift motor, rating at \$3	(kW)	2.2/5 %	2.2/5%	
	6.3	Battery according to DIN 43531/35/36; A, B, C, no		no	no	
Drive	6.4	Battery voltage / nominal capacity K5	(V)/(Ah)	24/345 - 465	24/345 - 465	
	6.5	Battery weight ± 5 %	(kg)	402	402	
	6.6	Energy consumption according to VDI cycle	(kWh)	0.54	0.46	
	6.7	Turnover output	(t/h)	-	-	
	6.8	Energy consumption at turnover output	(kWh/h)	-	-	
Others	0.1	Drive control		AC control	AC control	
ers	8.1	Since control		Are control	ne control	

 $^{\rm 2)}$ with forks lenght 2390 mm/x = 1615 mm/pull bar version; for other forks dimension see table in Linde World

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

- *) with lifting platform option standard version + 72 mm; with lifting platform option damped version + 87 mm; with tiller adjustment option. b14 setting range = + 89
- with tiller adjustment option, h14 setting range = + 89 mm/ - 19 mm

 $^{\rm 9)}$ with lifting platform option standard/damped version $^{\rm 11)}$ faster truck version available as optional: 10 km/h laden

(except for trucks with Li-ION battery)/14 km/h unladen $^{\rm 12)}$ faster truck version available as optional: 14 km/h unladen

¹³⁾ on rounded edge slope with forks/arms raised, if possible
 ¹⁴⁾ for the geometric limit on unrounded edge slope,

see table in Linde World

TECHNICAL DATA

ACCORDING TO VDI 2198

	1.1	Manufacturer		LINDE	LINDE	
	1.2	Manufacturer's type designation		N25C	N25C HP	
tics	1.3	Drive		Electric	Electric	
ht Characteristics	1.4	Operator type		Stand-on	Stand-on	
	1.5	Rated capacity / rated load	Q (t)	2.5	2.5	
	1.6	Load centre distance	c (mm)	1200	1200	
	1.8	Load distance, centre of drive axle to fork	x (mm)	1615 ²⁾	1615 ²⁾	
	1.9	Wheelbase	y (mm)	2717 2) 4)	2720 2) 4)	
	2.1	Service weight (including battery)	(kg)	1203 ²⁾	1243 2)	
Weight	2.2	Axle loading, laden front/rear	(kg)	1188/2515	1322/2421	
Š	2.3	Axle loading, unladen front/rear	(kg)	906/297	942/301	
5	3.1	Tyres		Polyurethane	Polyurethane	
Wheels and tyres	3.2	Tyre size, front		254 x 102	254 x 102	
d t)	3.3	Tyre size, rear		85 x 80	85 x 80	
an	3.4	Additional wheels (dimensions)		150 x 50	110 x 60	
els	3.5	Wheels, number front/rear (x=driven wheels)		1x - 1/4	1x - 2/4	
vhe	3.6	Tread, front	b ₁₀ (mm)	474	547	
>	3.7	Tread, rear	b ₁₁ (mm)	348 (368/388/498)	348 (368/388/498)	
	4.2	Height, mast lowered	h, (mm)	-	-	
	4.3	Free lift	h ₂ (mm)	-	-	
	4.4	Lift	h ₃ (mm)	130	130	
	4.5	Height, mast extended	h ₄ (mm)	-	-	
	4.6	Initial lift	h _s (mm)	-	-	
	4.8	Stand height // Seat height (min/max)	h ₇ (mm)	130 7)	130 7)	
	4.9	Height drawbar in driving position min./max.	h ₁₄ (mm)	1258 8)	1258 8)	
	4.10	Height of wheel arms	h _s (mm)	-	-	
	4.14	Stand height, elevated (with lifting platform)	h ₁₂ (mm)	1182/1197 ⁹⁾	-	
s	4.15	Forks height, lowered	h ₁₃ (mm)	85	85	
ioi	4.17	Overhang	l _s (mm)	-	-	
Dimensions	4.19	Overall length	l ₁ (mm)	3680 4)	3680 4)	
.Ĕ	4.20	Length to face of forks	l ₂ (mm)	1290 ⁴⁾	1290 4)	
	4.21	Overall width	b ₁ (mm)	800	800	
	4.22	Fork dimensions	s/e/l	61 (78 max)/172/2390	61 (78 max)/172/2390	
	4.24	Fork-carriage width	b ₃ (mm)			
	4.25	Distance between fork-arms	b _s (mm)	520 (540/560/670)	520 (540/560/670)	
	4.31	Ground clearance, laden, below mast				
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	24 / 154 ³⁾	24/154 3)	
	4.34	Aisle width for for pallets 800 x l6 lengthways (fork raised)	A _{st} (mm)	see table in Linde World	see table in Linde World	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways (fork raised)	A _{st} (mm)	see table in Linde World	see table in Linde World	
	4.34.2	Aisle width for pallets 800 x 1200 crossways (fork raised)	A _{st} (mm)	see table in Linde World	see table in Linde World	
	4.35	Turning radius	W _a (mm)	2893 ²⁾ /2786 ^{2) 3) 4) 5)}	2893 ²⁾ /2786 ^{2) 3) 4) 5)}	
	5.1	Travel speed laden/unladen	(km/h)	9/12 12)	11/14	
9	5.1.1	Travel speed laden/unladen,backwards	(km/h)	8/11	8/11	
ner	5.2	Lift speed laden/unladen	(m / s)	0.064/0.089	0.064/0.089	
Performance	5.3	Lowering speed laden/unladen	(m / s)	0.068/0.066	0.068/0.066	
erf	5.8	Max. gradeability laden/unladen	(%)	7 %/12 % 13) 14)	7 % / 12 % 13) 14)	
₽.	5.9	Acceleration time, laden/unladen	(5)	6.4/4.8	6.2/4.8	
	5.10	Service brake		Electromagnetic	Electromagnetic	
	6.1	Drive motor, rating S2 = 60 min	(kW)	3	3	
	6.2	Lift motor, rating at S3	(kW)	2.2/5%	2.2/5%	
<i>a</i> .	6.3	Battery according to DIN 43531/35/36; A, B, C, no		NO	no	
Drive	6.4	Battery voltage / nominal capacity K5	(V)/(Ah)	24/345 - 465	24/345 - 465	
	6.5	Battery weight ± 5 %	(kg)	402	402	
	6.6	Energy consumption according to VDI cycle	(kWh)	0.52	0.52	
	6.7	Turnover output	(t/h)	-	-	
10	6.8	Energy consumption at turnover output	(kWh/h)	-	-	
Others	8.1	Drive control		AC control	AC control	
б	10.7	Sound level at driver's ear	(dB(A))	< 70	< 70	

 $^{2)}$ with forks lenght 2390 mm/x = 1615 mm/pull bar version; for other forks dimension see table in Linde World

 $^{\scriptscriptstyle 3)}$ 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;

⁸⁾ 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;

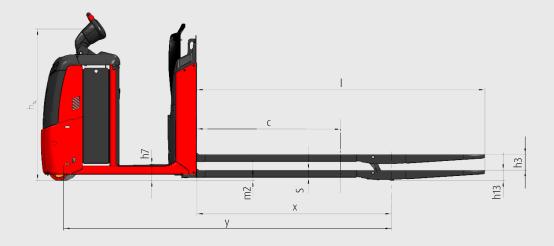
with tiller adjustment option, h14 setting range = + 89 , mm/-19 mm

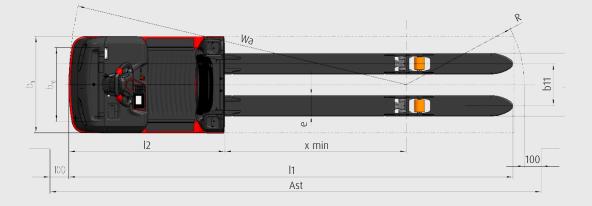
⁹⁾ with lifting platform option standard/damped version $^{\mbox{\tiny 11}}$ faster truck version available as optional: 10 km/h laden

(except for trucks with Li-ION battery)/14 km/h unladen $^{\scriptscriptstyle 12)}$ faster truck version available as optional: 14 km/h unladen

¹³⁾ on rounded edge slope with forks/arms raised, if possible ¹⁴⁾ for the geometric limit on unrounded edge slope,

see table in Linde World





STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

OPTIONAL EQUIPMENT

Chassis width 800 mm	Drive wheels: cushion rubber, synthetic cushion rubber non marking, wet grip			
Rubber platform mat	Load wheels: tandem polyurethane, single and tandem			
Anti-slip stripes	polyurethane greaseable			
Fixed cushioned and roundly shaped backrest equipped with handle	Castor wheels: tandem polyurethane and tandem polyurethane greaseable			
Power assisted steering, adjustable steering resistance	Raising platform (except on N25 C HP)			
Polyurethane drive wheel	Pneumatic damping of foot platform			
Single polyurethane load wheel	Cushioned knee protection and foldable leg rest step			
Single polyurethane castor wheel	Height adjustable Linde Steering Wheel			
Hydraulic castor wheels (on the five-point contact HP version)	Height adjustable cushioned backrest with foldable seating support			
Workstation with A4 clip integrated	Dashboard with incorporated storage compartments			
Key switch or PIN code access	Inching control (forward only or forward/backward) and initial lift			
Multifunction colored display incl. hour meter, maintenance indication, battery	Accessory supports			
discharge indicator and internal fault code indication	Support Clipboard DIN A4 and panoramic mirror			
2.3 kW (on N20 C B) and 3 kW AC drive motor (maintenance free)	Support data terminal and power supply cable 24 V			
2.2 kW (5 % rating output) lift motor	Support for scanner and shrink wrap holder			
CAN-bus technology	Working lamp LED with ON/OFF switch			
Automatic speed reduction in curves	Electric socket 12 V or USB plug			
Initial lift electrical stop sensor	Other options available on request			
Automatic breaking on releasing butterfly switch	Forks:			
Electromagnetic emergency brake acting proportionally to the load weight	Width over fork carriage: 520 mm, 540 mm, 560 mm and 670 mm			
Electric horn	Fork carriage length: 2900 mm and 3100 mm			
Initial lift of 130 mm	Locking/unlocking of roll cages on fork tip (fork length >1600 mm)			
Width over fork carriage: 520 mm, 540 mm, 560 mm and 670 mm	Speed reduction if forks lowered			
Fork carriage length: 990 mm, 1190 mm, 1450 mm, 1600 mm, 1800 mm, 2150 mm and 2390 mm	Safety:			
Vertical battery change in 3 and 4 PzS	Front chassis protections			
Protection -10° C	Load Backrest 1290 mm/1875 mm			
	Linde BlueSpot™, Front LED-stripes, Flashing Beacon			
	Enviroment:			
	Cold store protection - 35° C			
	Linde Connected Solutions:			

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 ${\rm PzS}/{\rm 4}$ 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)

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

- → Four points contact configuration for maximum stability
- → High-performance model with five-point contact configuration available for optimized traction (N25 C HP)
- → Hydraulic tandem castor wheels, select perfect ratio between stability and traction for constant ground contact (N25 C HP)
- → Traction speed from 10 km/h (N20 C B) to 14 km/h (N20-25 C/C HP) unloaded
- → Electromagnetic braking initiated by the emergency stop button acts on the drive motor, proportional

Easy manoeuvering

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



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
- → Easy access to central drive wheel thanks to service access point (HP model)



Workstation

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



Efficient drive system

- → Powerful, high-torque 2.3 kW (N20 C B) and 3 kW AC drive motor
- → Moisture and dust-proof maintenance-free motor with up to 7 % gradeability performance fully loaded
- → Safe starting on gradients without rollback
- → Effortless proportional electric power steering with positive feedback
- → Automatic speed reduction when cornering

Productivity at the second level

- → Raising platform option to optimize occasional first and second level picking (except on N25 C HP)
- → Optional pneumatic damper for optimum comfort
- \rightarrow 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
- \rightarrow Platform lowering with foot switch

Work in comfort

- \rightarrow Wide platform access of 428 mm and low step in height of 130 mm
- → Damped mat or pneumatic damper for reduced vibration levels
- \rightarrow Height adjustable Linde Steering Wheel
- → Cushioned, rounded-shape backrest, also available with height adjustment with foldable seating support



Energy for your activity

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

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.



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Presented by:



Order Picker

SEMI-AUTOMATED

Capacity 2.0-2.5 t | Series 1115-4587

Productive co-drivers

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



TECHNICAL DATA (According to VDI 2198)

	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE
Characteristics	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
ıara	1.5	Load capacity/Load	Q (t)	2.0	2.0	2.5	2.0	2.5
	1.6	Load centre distance	c (mm)	600	600	1200	1200	1200
	1.8	Axle centre to fork face	x (mm)	900/970 ¹⁾²⁾	900/970 ¹⁾²⁾	1.775 / 1.845 ^{1) 2)}	1615 14)	1615 ¹⁴⁾
	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)	2717 14) 15)	2717 14) 15)
	2.1	Service weight	(kg)	953 ⁵⁾	953 ⁵⁾	996 ⁵⁾	1268 14)	1293 14)
Weights	2.2	Axle load with load, front / rear	(kg)	1.303/1.650 5)	1.303/1.650 5)	1.503/1.993 5)	1210/2058	1278/2515
Ň	2.3	Axle load without load, front/rear	(kg)	821/132 5)	821/1325)	841/1555)	987/281	996/297
	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	Ø 254 × 102			
res	3.3	Tyre size, rear		Ø 85 × 80	Ø 85 × 80	Ø 85 × 80	Ø 85 × 100	Ø 85 × 80
/Tγ	3.4	Auxiliary wheels (dimensions)		2x Ø 140 × 50	2x Ø 140 × 50	2x Ø 140 × 50	Ø 150 × 50	Ø 150 × 50
Wheels / Tyres	3.5	Wheels, number front/rear (x = driven)		1x + 1/2	1x + 1/2	1x + 1/2	1x - 1/2	1x - 1/4
Whe			h10 ()	$(1x + 1/4)^{6}$	$(1x + 1/4)^{6}$	$(1x + 1/4)^{6}$,	
	3.6	Track width, front	b10 (mm)	491 ²⁾ 355	491 ²⁾ 355	491 ²⁾ 355	474 348	474
	3.7	Track width, rear	b11 (mm)	(375/395/515) ²⁾	(375/395/515) ²⁾	(375/395/515) ²⁾	(368/388/498)	348 (368/388/498)
	4.4	Lift	h3 (mm)	115	115	115	130	130
	4.8	Seat height relating to SIP/stand height	h7 (mm)		-	-	130	130
	4.9	Height drawbar in driving position min./max.	h14 (mm)				1258 16)	1258 16)
	4.15	Height, lowered	h13 (mm)	85 ⁷⁾	85 ⁷⁾	85 ⁷⁾	85	85
	4.19	Overall length	l1 (mm)	2.500 2) 8)	2.500 2) 8)	3.750 2) 8)	3860 ¹⁵⁾	3860 15)
	4.20	Length to fork face	l2 (mm)	1.350 2) 4)	1.350 2) 4)	1.350 2) 4)	1470 15)	1470 15)
	4.21	Overall width	b1/b2 (mm)	790 ²⁾	790 ²⁾	790 ²⁾	822	822
Dimensions	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	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)	520 (540/560/670)
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	160/30 ^{1) 9)}	160/30 1) 9)	160/30 1) 9)	24/154 17)	24/154 17)
	4.33	Load dimension b12 \times 16	b12 × l6 (mm)	800 × 1.200	800 × 1.200	2 × 800 × 1.200	-	-
	4.34	Aisle width predetermined load dimensions	Ast (mm)	2.950 4) 10) 11)	2.950 4) 10) 11)	4.067 4) 10) 11)	See table in linde world	See table in linde world
	4.34.1	Aisle width for pallets 1000 × 1200 crossways (fork raised)	Ast (mm)				See table in linde world	See table in linde world
	4.34.2	Aisle width for pallets 800 \times 1200 crossways (forks raised)	Ast (mm)	-	-	-	See table in linde world	See table in linde world
	4.35	Turning radius	Wa (mm)	2.250/2.320 1) 4)	2.250/2.320 ^{1) 4)}	3.125/3.195 ^{1) 4)}	3083 ¹⁴⁾ / 2975 ^{14) 15) 17)}	3083 ¹⁴⁾ / 2975 ^{14) 15) 17)}
	5.1	Travel speed, with/without load	(km / h)	10 / 12 12)	10 / 12 12)	10 / 12 12)	9/12 18)	9/12 18)
	5.1.1	Travel speed, with/without load, backwards	(km / h)	10 / 10 12)	10/10 ¹²⁾	10/10 12)	8/11	8/11
ince	5.1.2	Travel speed, with / without load, backwards	(km / h)	6	6	6	6	6
Performance	5.2	Lifting speed, with/without load	(m / s)	0.060 / 0.070 5)	0.060 / 0.070 ⁵⁾	0.060/0.070 5)	0.070/0.111	0.064/0.089
erfo	5.3	Lowering speed, with/without load	(m / s)	0.060/0.080 5)	0.060 / 0.080 5)	0.060/0.080 5)	0.084/0.067	0.068/0.066
ď	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)	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	6.4/4.8
	5.10	Service brake	(1.111)	Electric / hydraulic	Electric / hydraulic	Electric / hydraulic	Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min	(kW)	3	3	3	3	3
	6.2	Lift motor rating at \$3.15 %	(kW)	1.2/15%	1.2/15%	1.5/15%	2.2/5%	2.2/5%
	6.3	Battery according to DIN 43531/35/36 A, B, C, no	(V)/(Ab)	43 535/3 PzS	43 535/3 PzS	43 535/3 PzS	NO	NO
Drive	6.4	Battery voltage/rated capacity (5 h)	(V)/(Ah)	24/345-375	24/345-375	24/345-375	24/345 - 465	24/345 - 465
	6.5	Battery weight (± 5 %)	(kg)	272/315 ⁵⁾¹³⁾	272/315 ^{5) 13)}	272/315 ⁵⁾¹³⁾	402 0.45*	402 0.48*
	6.6	Power consumption according to VDI cycle (EN 16796 *)	(kWh/h)	-	-	- 0.48	0.45	
	6.6.1	CO ₂ equivalent emissions	(kg/h)			162.5		0.3
	6.7	Turnover output according to VDI 2198	(t/h)	136.0	136.0	162.5	129.0	157.0
S	6.8 9.1	Turnover efficiency according to VDI 2198	(kwh/h)	1.46	1.46	1.43	1.9	2.2
Others	8.1	Type of drive unit	(dp(A))	LAC	LAC	LAC	AC control	AC control
ō	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	< 85	< 85	< 85	< 70	< 70

N20 SA (1115)

- 1) Forks upraised / lowered
- 2) (± 5 mm)
- 3) With/without Initial lift 4) Values for 3 PzS batteries. 4 PzS battery =
- tabled values + 100 mm
- 5) (± 10%)
- 6) Figures in parenthesis with tandem load wheels
- 7) (-0/+5 mm)
- 8) \pm 0 mm = 3 PzS lateral; +100 mm = 3 PzS vertical and
- 4 PzS lateral; +150 mm = 4 PzS vertical.
- 9) (± 2 mm) 10) Including a 200 mm (min.) operating aisle clearance.
- 11) Forks upraised

12) (± 5%) 13) Min./max.

N20 C SA (4587)

14) With forks lenght 2390 mm / x =1615 mm / pull bar version; for other

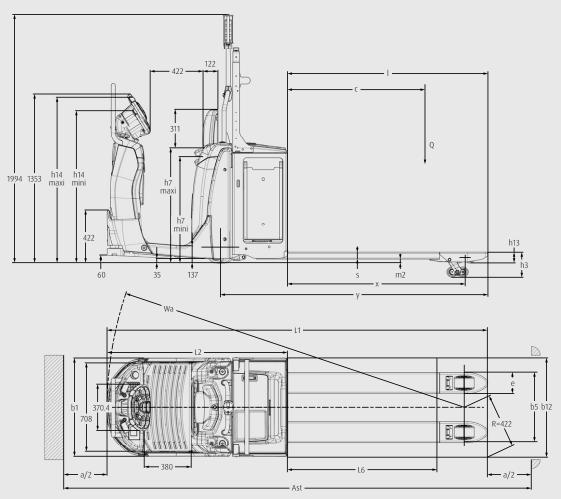
- forks dimension see table below 15) With tray 4 Pz or Li-ION + 114 mm
- 16) With tiller adjustment option,

h14 setting range = +89 mm/-19 mm

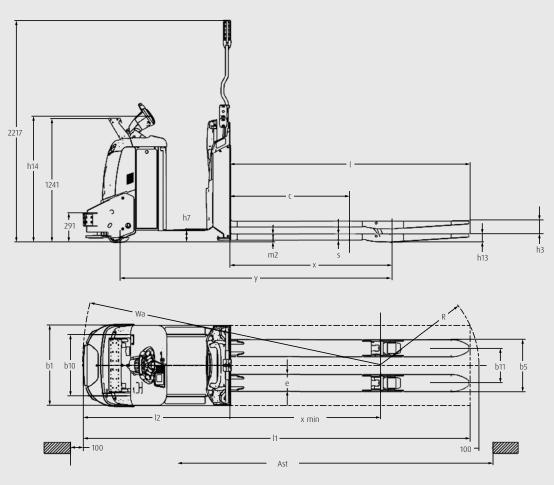
17) With load arms or forks raised

- 18) Traction speed unladen until 14 km/h $\,$ available as optional
- 19) On rounded edge slope with forks / arms raised, if possible
- 20) For the geometric limit on unrounded edge slope, see table below

N20 SA



N20 C SA



STANDARD AND OPTIONAL EQUIPMENT

Model/ Equipment Front casted bumper with integrated safety scanner Automatic speed reduction when concering 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 Fold Colspan="2">Form LED light Additional emergency buttons located in the rear part Key switch Log in PIN code Fold Colspan="2">Form LED light Additional emergency buttons located in the rear part Key switch Log in PIN code Forn cast access control Remote control Remote control Remote control charger Linde connect: deak ac: access control (PIN or RFID) dt: crash detection an: usage analysis Linde connect: cloud Basic rounded display Multifunction coloured display hour meter, maintenance indicaton, b internal fault code indication Height adjustable inde Steering Wheel Knee protection Basic rounded display Multifunc	N20 B SA	N20 SA	N25 SA	N20 C SA	N25 C SA
Low-mounted high level safety scanner Automatic speed reduction when cornering Lighting pole (mounted on rear accessory support) Linde BlueSpot ^M Front LED light Additionnal emergency buttons located in the rear part Key switch Log in PIN code Follow-me function with walk-with-me mode StopSeGo function with continous driving mode Rear initial lift control Initial lift electrical stop sensor Low speed if initial lift low Load backrest Remote control charger Linde connect: desk ac: access control (PIN or RFID) dt: crash detection an: usage analysis Linde connect: desk ac: access control (PIN or RFID) dt: crash detection an: usage analysis Linde connect: desk ac: access or support data terminal and power, sperating hours, truck mapping) Data framsmission (WiF or Online) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display	NZU B SA	NZU SA	NZ5 SA	NZU C SA	
Oppose Automatic speed reduction when cornering Lighting pole (mounted on rear accessory support) Linde BlueSpot ^W Front LED light Additional emergency buttons located in the rear part Key switch Log in PIN code Foldow-me function with walk-with-me mode StopEoF function with outloous driving mode Rear initial lift control Initial lift control Initial lift electrical stop sensor Low speed if initial lift low Load backrest Remote control charger 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 (WH or Online) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Basic rounded display Wultifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support Accessory support front Accessory support front Accessory support fort Accessory support fort 10 MA and support for scanner <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Pupped Votice Numerative Support 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 Follow-me function with walk-with-me mode StopEGo function with continous driving mode Rear initial lift control Initial lift electrical stop sensor Load backrest Load backrest Remote control charger Linde connect: desk ac. access control (PIN or RFID) dt: crash detection an: usage analysis Linde connect: doud Basic Package (trouble codes, operating hours, truck mapping) Data Transmission (WiFI or Online) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Multifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support Accessory support front Accessory support foron Accessory support foron Keight adjustable backrest including on model) Fork carriage up to 680 mm (depending on model) Fork carriage up to 680 mm (depending on model)					
Time BlueSpot** Front LED light Additional emergency buttons located in the rear part Key switch Log in PIN code Follow-me function with walk-with-me mode Stop&Go function with continous driving mode Rear initial lift electrical stop sensor Low speed if initial lift low Load backrest Remote control charger Linde connect: desk ac: access control (PIN or RFID) dt: crash detection an: usage analysis Linde connect: doud Basic Package (trouble codes, operating hours, truck mapping) Data Transmission (WFI or Online) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Multifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support Accessory support front Accessory support clipboard DIN A4 and support for N20 series) Support clipboard DIN A4 and support for scanner Shrink wrap pole Rear lower					
Profit CED Byte Additional emergency buttons located in the rear part Key switch Log in PIN code Follow-me function with walk-with-me mode Stop&Go function with continous driving mode Rear initial lift control Initial lift electrical stop sensor Load backrest Remote control Remote control (PIN or RFID) dt. crash detection ar: access control (PIN or RFID) dt. crash detection ar: access control (PIN or RFID) dt. crash detection ar: access control (PIN or RFID) dt. crash detection ar: access control (PIN or RFID) dt. crash detection ar: access control (PIN or RFID) dt. crash detection ar: access control (PIN or RFID) dt. crash detection Basic Package (trouble codes, operating hours, truck mapping) Data transmission (WFI or Online) Fully suspended operator compartment Damped platform option Height adjustable backrest including foldable seating support Accessory support front Accessory support front <td< td=""><td></td><td>0</td><td>0</td><td>0</td><td>0</td></td<>		0	0	0	0
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Iog in PIN code Follow-me function with walk-with-me mode StopEGo function with continous driving mode Rear initial lift control Initial lift electrical stop sensor Low speed if initial lift low Load backrest Remote control Basic Package (trouble codes, operating hours, truck mapping) Data Transmission (WiFi or Online) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Multifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support Accessory support front Accessory support fort Accessory support of prote Fork length up to 3100 mm (depending on model) </td <td></td> <td></td> <td>•</td> <td>•</td> <td>•</td>			•	•	•
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Votorea Rear initial lift control Initial lift electrical stop sensor Iow speed if initial lift low Low speed if initial lift low Ioda backrest Remote control Remote control charger 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) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Multifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support Accessory support front Accessory support front Accessory support fort car (includes central pole for N20 series) Support clipboard DIN A4 and support for scanner Shrink wrap pole Rear lower storage Fork carriage up to 680 mm (depending on model) Orive wheel Heavy Duty Drive wheel Heavy Duty Drive wheel Heavy Duty Drive wheel Heavy Duty		•	•	•	•
Very Provided Prove Proved Proved Provided Provided Provided Provided Provided	0	0	0	0	0
Very Provided Prove Proved Proved Provided Provided Provided Provided Provided		•	•	•	•
Very Provided Prove Proved Proved Provided Provided Provided Provided Provided	0	0	0	0	0
Torogeneration Remote control Remote control charger 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) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Multifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support Accessory support front Accessory support front Accessory support for scanner Shrink wrap pole Rear lower storage Fork carriage up to 680 mm (depending on model) Fork carriage up to 975 mm (depending on model) Orive wheel Heavy Duty Drive wheel High Grip Single/tandem load wheels polyurethane (greasable) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 PzS including ergonomic lever and metal rollers		0	0	0	0
Voto Point Po	0	0	0	0	0
Vibro Provide and State S		0	0	0	0
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) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Multifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support 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 Fork carriage up to 680 mm (depending on model) Overhang up to 975 mm (depending on model) Drive wheel High Grip Single / tandem load wheels polyurethane (greasable) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 PzS <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	0	0	0	0	0
Interview 000000000000000000000000000000000000		0	0	0	0
Data Transmission (WiFi or Online) Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Multifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support Accessory support front Accessory support for tat terminal and power supply cable 24 V Support data terminal and power supply cable 24 V Support dipboard DIN A4 and support for scanner Shrink wrap pole Rear lower storage Fork length up to 3100 mm (depending on model) Overhang up to 975 mm (depending on model) Drive wheel Heavy Duty Drive wheel High Grip Single/tandem load wheels polyurethane (greasable) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, vertical change 3 PzS (345 Ah/375 Ah) and 4 F Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers	0	0	0	0	0
View of the provide today of the provided to		0	0	0	0
View of the provide today of the provided to	0	0	0	0	0
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Fully suspended operator compartment Damped platform option Height adjustable Linde Steering Wheel Knee protection Basic rounded display Multifunction coloured display hour meter, maintenance indication, b internal fault code indication Height adjustable backrest including foldable seating support Accessory support front Accessory support data terminal and power supply cable 24 V Support data terminal and power supply cable 24 V Support clipboard DIN A4 and support for scanner Shrink wrap pole Rear lower storage Fork carriage up to 680 mm (depending on model) Overhang up to 975 mm (depending on model) Drive wheel Heavy Duty Drive wheel High Grip Single / tandem load wheels polyurethane (greasable) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, vertical change 3 PzS (345 Ah/375 Ah) and 4 F Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers	0	0	0	0	0
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Shrink wrap pole Rear lower storage 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) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 PS including ergonomic lever and metal rollers Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers	0	0	0	0	0
Rear lower storage Rear lower storage 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) Drive wheel Heavy Duty Drive wheel High Grip Single / tandem load wheels polyurethane (greasable) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 PzS including ergonomic lever and metal rollers Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers		0	0	0	0
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Jump Topology Public Single / tandem load wheels polyurethane (greasable) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 F including ergonomic lever and metal rollers Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers		0	0	_	_
Drive wheel Heavy Duty Drive wheel High Grip Single/tandem load wheels polyurethane (greasable) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, vertical change 3 PzS (300 Ah/375 Ah) and 4 F Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 F Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers		0	0	0	0
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Drive wheel High Grip Single / tandem load wheels polyurethane (greasable) Standard castor wheel Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, vertical change 3 PzS (300 Ah/375 Ah) and 4 F Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 F Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers	•	•	•	•	•
Power assisted steering 3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, vertical change 3 PzS (300 Ah/375 Ah) and 4 F Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 PzS including ergonomic lever and metal rollers Battery compartment, side change 3 PzS (345 Ah/465 Ah) and 4 PzS including ergonomic lever and metal rollers	0	0	0	0	0
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including ergonomic lever and metal rollers	160 Ab / 620 Ab)				
	160 AN/ 620 AN),	0	0	0	0
Battery compartment, Li-ION battery (205 Ah / 410 Ah) including side	lug for opportunity charging O	0	0	0	0
Li-ION 24 V-Chargers		0	0	0	0
CAN bus technology Rack configurations and End-of an aisle stop adjustments	•	•	•	•	•
Rack configurations and End-of an aisle stop adjustments	•		•		

CHARACTERISTICS



Linde BlueSpot™ and bumper including safety scanner



Ergonomic remote



Walk with me or Stop and Go function



Computerized diagnostic

Safety

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

Ergonomics

- \rightarrow Semi-automated operation eliminates the need to repeatedly step on and off the vehicle and prevents fatigue
- \rightarrow Activation of the semi-automated modes is intuitive, safe and easy via remote control
- \rightarrow 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

Handling

- \rightarrow 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
- \rightarrow In "continuous" mode, the drive is activated via the remote control and enables convenient order picking on both sides of the rack
- \rightarrow 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
- \rightarrow Semi-automatic operation is deactivated as soon as the operator drives the vehicle himself

Service

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

Subject to modification in the interest of progress. Illustrations and technical details could include options and

Presented by:

not binding for actual constructions. All dimensions subject to usual tolerances



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