

# Order Picker N20 D N20 D HP

Capacity 1.0 t | Series 1115

## Powerful double-deck order picker

- ightarrow Thanks to the double forks, two pallets can be loaded and transported simultaneously
- $\rightarrow$  Ergonomic lift enables the operator to pick even heavy goods at a height that is gentle on the back
- ightarrow Separate levels are ideal for transporting heavy and pressure-sensitive goods
- ightarrow Fully suspended operating platform protects against shocks and vibrations while driving
- $\rightarrow$  Operator's platform in front of the battery ensures maximum maneuverability and a clear view of the warehouse environment

## TECHNICAL DATA (According to VDI 2198)

1.1	Manufacturer		Linde	Linde
1.2	Model		N20 D	N20 D HP
1.2.a	Series		1115-00	1115-00
1.3.	Power Unit		Battery	Battery
1.4	Operation		Preparation	Preparation
1.5	Load capacity/Load, main lift only; main lift/initial lift; initial lift only	Q (t)	1.2; 0.8/1.2; 2.0 <sup>1)</sup>	1.2; 0.8/1.2; 2.0 <sup>1)</sup>
1.6	Load centre	c (mm)	600	600
1.8	Axle centre to fork face	x (mm)	944/874 2) 3)	944/874 2) 3)
1.9	Wheelbase	y (mm)	1611/1541 <sup>2) 4)</sup>	1611/1541 <sup>2) 4)</sup>
2.1	Service weight	(kg)	1417	1417
2.2	Axle load with load, front/rear	(kg)	1560/1851	1503/1914
2.3	Axle load without load, front/rear	(kg)	1152/265 2)	1105/312 <sup>2)</sup>
3.1	Tyres rubber, SE, pneumatic, polyurethane		R + P/P; P + P/P	R + P/P; P + P/P
3.2	Tyre size, front		ø 254 x 102	ø 254 x 102
3.3	Tyre size, rear		2x ø 85 x 60 (ø 85 x 85) 5)	2x ø 85 x 60 (ø 85 x 85) 5)
3.4	Additional wheels		2x ø 140 x 50	2x ø 125 x 60
3.5	Wheels, number front/rear (x = driven)		$1x + 1/2 (1x + 1/4)^{-5}$	1x + 2/2 (1x + 2/4) <sup>5)</sup>
3.6	Track width, front	b10 (mm)	491	572
3.7	Track width, rear	b11 (mm)	380	380
4.2	Height of mast, lowered	h1 (mm)	1415 6)	1415 <sup>6)</sup>
4.3	Free lift	h2 (mm)	150 6)	150 6)
4.4	Lift	h3 (mm)	1924 <sup>6)</sup>	1924 6)
4.5	Height of mast, extended	h4 (mm)	2444 6)	2444 <sup>6)</sup>
4.6	Initial lift	h5 (mm)	115	115
4.8	Height of seat/stand on platform	h7 (mm)	867/000	867/000
4.10	Height of wheel arms	h8 (mm)	80	80
4.15	Height at the end of the forks in the lowered position	h13 (mm)	86	86
4.19	Overall length	l1 (mm)	2717 4)	2717 4)
4.20	Length to fork face	l2 (mm)	1570 4)	1570 4)
4.21	Overall width	b1 (mm)	800	800
4.22	Fork dimensions	s/e/l (mm)	71/180/1150	71/180/1150
4.23	Load arm dimensions	s/e/l (mm)	75/150/1115	75/150/1115
4.24	Width of fork carriage	b3 (mm)	780	780
4.25	Width over forks	b5 (mm)	560	560
4.26	Internal width of the load arm	b4 (mm)	255	255
4.31	Ground clearance, below mast		20/145 2)	20/145 2)
4.32	Ground clearance, centre of wheelbase	m2 (mm)	20/145 2)	20/145 2)
4.33	Load dimensions b12 x l6	b12 x l6 (mm)	800 x 1200 lengthwise	800 x 1200 lengthwise
4.34	Aisle width with predetermined load dimensions	Ast (mm)	3063/3038 <sup>4) 7)</sup>	3063 / 3038 <sup>4) 7)</sup>
4.34.1	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	3190/3161 4) 7)	3190/3161 4) 7)
4.34.2	Aisle width with pallet 800 x 1200 across forks	Ast (mm)	3277 / 3242 4) 7)	3277 / 3242 4) 7)
4.35	Turning radius	Wa (mm)	2515/2445 4)	2515/2445 4)
5.1	Travel speed, with/without load	(km/h)	10/12	10/12
5.1.1	Travel speed, with without load	(km/h)	10/12	10 10
1	Lifting speed, initial lift, with/without load	(m/s)	0.06/0.07 6)	0.06/0.07 %
5.2	Lifting speed, main lift, with/without load	(m/s)	0.12/0.2 6)	0.12/0.2 6)
	Lowering speed, initial lift, with/without load	(m/s)	0.06 / 0.08 6)	0.06 / 0.08 6
5.3	Lowering speed, mildlink, with/without load	(m/s)	0.3/0.3 6)	0.3/0.3 6
5.8	Climbing ability, with/without load	(m/s)	14/20	14/20
5.9	Acceleration time (10 m), with / without load	(s)	6/4.8	6/4.8
5.10	Service brake	(-)	Electro-hydraulic	Electro-hydraulic
6.1	Drive motor rating \$2.60 min	(kW)	3.0	3.0
6.2	Lift motor rating at \$3 10 %	(kW)	2.2	2.2
6.3	Battery according to DIN 43535/36 A/B/C/no	(\\)	45535 (3 PzS Lateral Change)	
		()//Ab)		45535 (3 PzS Lateral Change)
6.4	Battery voltage/apacity (5 h)	(V/Ah)	24/375	24/375
6.5	Battery weight (± 10 %)	(kg)	290	290
6.6	Energy consumption according to VDI cycle normalized	(kWh/h)	1.15	1.15
6.7	Turnover output according to VDI cycle	(T/h)	47	47
6.8	Consumption according to turnover output	(kWh/h)	1.71	1.71
	<b>T</b> (1) (1)			
8.1 10.7	Type of drive control Noise level at operator's ear	(dB(A))	LAC < 85	<pre>LAC &lt; 85</pre>

1) Pallet truck capacity on the fork arms, with initial lift option

Low/high position fork arm

3) Value with a Standard mast

5) Figures in ( ): Truck equipped with tandem load wheels

6) Value for a mast 19245, other value see mast tables

7) Ast = Wa + R + a, Safety distance a = 200 mm

<sup>4)</sup> With battery line 6.3 (+ 75 mm for 4 PzS)





## **MAST TABLES**

## STANDARD MAST (in mm)

Lift	h3: 1574	h3: 1724	h3: 1924
Height measurements	h1: 1240 h1#: 1315 h2: 150 h3: 1574 h4: 2094 h5: 115	h1: 1315 h1#: 1390 h2: 150 h3: 1724 h4: 2244 h5: 115	h1: 1415h1#: 1490h2: 150h3: 1924h4: 2444h5: 115
Model			
N20 D	0	0	0
N20 D HP	0	0	0

○ Optional equipment – Not available

**h1:** Height of mast, lowered **h3:** Lift

h1#: Closed height (with free lift at 150 mm)h4: Height of mast, extended

h2: Free lifth5: Initial lift



# **STANDARD AND OPTIONAL EQUIPMENT**

Mode//Equipment         N2 0 0           Front casted steel bumper         •           Front casted steel bumper         •           Inde Blacspat <sup>M</sup> •           Maint speed reduction when connering         •           Front nubber protection         •           Maint speed reduction when connering         •           Front feet potection         •           Mast stop landing (100 mm)         •           Key witch         •           Tog in PNA code         •           Ottop         •           Ath bus technology         •           Bast connect         •           ac: access control PN         •           Bast tansfer Will         •           Data transfer Online         •           dt: tradue connect         •           ac: access control PN         •           Bast tansfer Online         •           dt: tradue control         •           Bast tansfer Online         •           dt: tradue control         •           Bast tansfer Online         •           dt: tradue control         •           Bast tansfer Online         •           Ottansfer Online         •	N20 D HP
Ford rubber protection (nounied on the casted steel bumper)         O           Linde Bluespat*         O           Maintain speed refution when comering         O           Front feet potection         O           Mass top landing 500 mm)         O           Key switch         O           Log in PN code         O           CAN bus technology         O           ac: access control PN         O	
Notes         Inde BlueSpot*         O           Automatic speed reduction when cornering         O         O           Match tele potection         O         O           Mast stop landing GOO mm)         O         O           Key switch         O         O           Tool tele potection         O         O           Mast stop landing GOO mm)         O         O           Key switch         O         O           Tool tele for tele potection         O         O           Ack bus technology         O         O           Tack access control FNI         O         O           ac access control FNI         O         O           data transfer Wifi         O         O           Data transfer Wifi         O         O           data transfer Online         O         O           dt: crash detection         O         O           tinking transfer Wifi         O         O           Bata transfer Online         O         O           tic trashe detecti	
Automatic speed reduction when comering     •       Front feet potection     •       Mass top landing (300 mm)     •       Key switch     •       Log in PNs code     •       Ottomatic speed reduction when comering     •       Mass top landing (300 mm)     •       Key switch     •       Log in PNs code     •       Ottomatic speed reduction when comering     •       Initial connect     •       ac access control PNN     •       act ansfer Will     •       Data transfer Will     •       Buetoon Use Stick     •       dit tradit control     •       mching control (forward only or forward/backward)     •       Mutter posture sensor     •       Lod backrest 1000 mm     •       Ood store -3strc (in/out)     •	
Mast stop landing (300 mm)     •       Key switch     •       Log in PNi code     •       OT     •       CAN bus technology     •       Linde connect     •       ac: access control PNi     •       accontrol PNi	
Mast stop landing (360 mm)         •           Key switch         •           Log in PN code         •           OV000         CAN bus technology         •           India connect         •         •           ac: access control PN         •         •           access control PN         •         •         •           Initial Ital actestrin Onon	
Key switch         Iog in PIN code         O           Iog in PIN code         O         O           CAN bus technology         Inde connect         O           ac. access control PIN         O         O           ac. access control RFID         O         O           Data transfer Will         O         O           di: cash detection         O         O           an. usage analysis         O         O           Bluetonh USB Slick         O         O           ticking control (forward only or forward / backward)         O         O           Rear initial and mast lift control         O         O           toxb pressure sensor         O         O         O           total backrest 1000 mm         O         O         O           fully suspended operator compartment         O         O         O           fully suspended operator compartment         O         O         O         O           fuelt outly shape backrest         O         O         O         O         O         O           full filt control         O         O         O         O         O         O         O         O         O         O         O         <	
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Support data terminal and power supply cable 24 V     O       Support clipboard DIN A4 and support for scanner     O	0
Support clipboard DIN A4 and support for scanner O	0
	0
Shrink wrap pole and rear bin	0
Rear lower storage O	0
Mast protection: polycarbonate       Mast protection: mesh	0
Fork length: 1150 mm	•
Fork carriage: 560 mm     •       Fork length: 1150 mm     •       Overhang: 188 mm     •	•
Drive wheel polyurethane	•
Drive wheel cushion rubber, non marking and wet grip         O	0
Single load wheels polyurethane	٠
Single load wheels polyurethane       Image: Castor wheel         Standard castor wheel       Image: Castor wheel         Castor wheel with spring and cylinder       Image: Castor wheel	0
Standard castor wheel	_
Častor wheel with spring and cylinder   –	
Hydraulic castor wheels -	•
Electromagnetic braking system	
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	
Electromagnetic braking system       •         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, 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  $\bigcirc$  Optional equipment – Not available

## **CHARACTERISTICS**



Linde BlueSpot™



Low step in height



Intuitive Linde steering wheel



Front casted steel bumper

#### Safety

- $\rightarrow$  Rounded edges of steel chassis to minimize risks while driving
- $\rightarrow$  Automatic speed reduction in curves for safe travel through the warehouse
- $\rightarrow$  Special position of the operator's platform in front of the battery gives the driver an optimum all-round view of the warehouse environment
- $\rightarrow$  Robust steel bumper protects vehicle frame and operating platform
- → Additional options such as front LED and Linde BlueSpot<sup>™</sup> maximize safety

#### Ergonomics

- $\rightarrow$  Low entry height of only 137 mm makes it easier to step in and out of the truck frequently
- $\rightarrow$  For short distances, the operator can comfortably control the vehicle from both sides using the optional pedestrian function
- $\rightarrow$  Fully suspended operator's compartment reduces vibrations and shocks transmitted to steering wheel and platform
- $\rightarrow$  An additional rear handle ensures optimum support when reversing or when stepping onto the truck

### Handling

- $\rightarrow$  Ergonomic lift allows operator to fill two pallets simultaneously and transport pressure sensitive goods separately
- $\rightarrow$  3 kW three-phase AC motor for effective acceleration to a top speed of 12 km/h
- $\rightarrow$  Initial lift facilitates transport over ramps and uneven surfaces
- $\rightarrow$  Depending on application requirements, lead-acid or optionally lithium-ion batteries are available
- $\rightarrow$  Adjustable Linde Steering Wheel provides intuitive operation and quick overview of key vehicle functions

#### Service

- $\rightarrow$  Up to 1000 operating hours without service check
- $\rightarrow$  Maintenance-free three-phase AC technology and adjustment-free brakes reduce service costs
- $\rightarrow$  Clearly arranged cable harnesses and cables for easy and quick maintenance
- $\rightarrow$  Vehicle parameters can be read out via CAN bus connection via laptop
- $\rightarrow$  Robust cast-steel bumper on the front protects the operator's compartment and reduces collision damage

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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Printed in Germany | 089.e.0,5.0819.IndA.Ki