

Order Picker

Capacity 0.8 t | Series 1115

Practical double order picker

- \rightarrow Long load arms and additional liftable forks allow two pallets to be loaded at a back-friendly height, one after the other, in just one picking cycle
- \rightarrow Fully suspended operating platform provides optimum protection 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
- ightarrow Robust cast-steel bumper protects chassis and operator's compartment from damage

TECHNICAL DATA (According to VDI 2198)

1.1	Manufacturer		Linde	Linde
1.2	Model		N20 LoL (without locking pallet)	N20 LoL (with locking pallet)
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)	0.8; 0.8/1.2; 2.0 1)	0.8; 0.8/1.2; 2.0 1)
1.6	Load centre	c (mm)	600	600
1.8	Axle centre to fork face	x (mm)	1602/1532 ^{2) 3)}	1707/1637 2) 3)
1.9	Wheelbase	y (mm)	2265/2195 ²⁾⁴⁾	2371/2301 2) 4)
2.1	Service weight	(kg)	1473	1473
2.2	Axle load with load, front/rear	(kg)	1684/1865	1684/1865
2.3	Axle load without load, front/rear	(kg)	1182/291 2)	1182/291 ²⁾
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 140 x 50
3.5	Wheels, number front/rear (x = driven)		1x + 1/2 (1x + 1/4) ⁵⁾	1x + 1/2 (1x + 1/4) ⁵⁾
3.6	Track width, front	b10 (mm)	491	491
3.7	Track width, rear	b11 (mm)	380	380
4.2	Height of mast, lowered	h1 (mm)	1315 6)	1315 6)
4.3	Free lift	h2 (mm)	750 ⁶⁾	750 ⁶⁾
4.4	Lift	h3 (mm)	750 6)	750 6)
4.5	Height of mast, extended	h4 (mm)	1391 ⁶⁾	2228 6)
4.6	Initial lift	h5 (mm)	115	115
4.8	Height of seat/stand on platform	h7 (mm)	867/1000	867/1000
4.10	Height of wheel arms		86	86
4.15	Height at the end of the forks in the lowered position	h13 (mm)	92	92
4.19	Overall length	l1 (mm)	3968 4)	4074 4)
4.20	Length to fork face	l2 (mm)	1567 4)	1567 ⁴⁾
4.21	Overall width	b1 (mm)	800	800
4.22	Fork dimensions	s/e/l (mm)	55/180/1200	55/180/1250
4.23	Load arm dimensions	s/e/l (mm)	66/125/2400	66/125/2500
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)	4262/4253 4) 7)	4275 / 4264 4) 7)
4.34.1	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	4367 / 4352 4) 7)	4392 / 4374 4) 7)
4.34.2	Aisle width with pallet 800 x 1200 across forks	Ast (mm)	4089/4058 4)7)	4143/4104 4)7)
4.35	Turning radius	Wa (mm)	3169/3097 4)	3275 / 3203 ⁴⁾
5.1	Travel speed, with/without load	(km/h)	10/12	10/12
5.1.1	Travel speed, backward, with/without load	(km / h)	10	10
	Lifting speed, initial lift, with / without load	(m/s)	0.06/0.07 6)	0.06 / 0.07 6)
5.2	Lifting speed, main lift, with/without load	(m/s)	0.12/0.2 6)	0.12/0.2 %
	Lowering speed, initial lift, with/without load	(m/s)	0.06/0.08 6)	0.06 / 0.08 6)
5.3	Lowering speed, milling int, with without load	(m/s)	0.3/0.2 6)	0.3/0.2 6)
5.8	Climbing ability, with/without load	(%)	13/20	13/20
5.9	Acceleration time (10 m), with/without load	(s)	6.1/4.9	6.1/4.9
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)	45535 (3 PzS Lateral Change)
6.4	Battery voltage / capacity (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)	0.59	0.59
6.7	Turnover output according to Vdi cycle	(T/h)	136	136
6.8	Consumption according to turnover output	(kWh/h)	1.78	1.78
8.1	Type of drive control	(KWII/ II)	LAC	LAC
0.1	Type of unive control			
10.7	Noise level at operator's ear	(dB(A))	< 85	< 85

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

Low/high position fork arm

3) Value with a Simplex mast

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

6) Value for a mast 750E, other value see mast tables

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

⁴⁾ With battery line 6.3 (+ 75 mm for 4 PzS)





MAST TABLES

SIMPLEX MAST (in mm)

Lift	h3: 750	h3: 912	h3: 1612	
Height measurements	h1: 1315 h2: 750 h3: 750 h4: 1382 h5: 115	h1: 1465 h2: 912 h3: 912 h4: 1465 h5: 115	h1: 2065 h2: 1545 h3: 1612 h4: 2132 h5: 115	
Model				
N20 LoL	0	0	0	

○ Optional equipment – Not available

h1: Height o	f mast,	lowered
--------------	---------	---------

h2: Free lift

h3: Lift

h4: Height of mast, extended

h5: Initial lift



STANDARD AND OPTIONAL EQUIPMENT

	Model/Equipment	N20 LoL
	Front casted steel bumper	
Safety	Front rubber protection (mounted on the casted steel bumper)	0
	Linde BlueSpot™	0
	Automatic speed reduction when cornering	
	Front feet potection	0
01	Mast stop landing (300 mm)	
	Key switch	•
	Log in PIN code	0
Service	CAN bus technology	•
S		<u> </u>
	Linde connect	0
	ac: access control PIN	0
ion	ac: access control RFID	0
isat	Data transfer Wifi	
Digitalisation	Data transfer Online dt: crash detection	0
Dig		0
	an: usage analysis Bluetooth USB Stick	0
	dt: trouble codes	0
	Inching control (forward only or forward/backward)	0
	Rear initial and mast lift control	
_ bu	Low Speed if initial lift low	
Operation / Load Handling	Initial lift electrical stop sensor	
rati Har	Soft landing on forks	0
ope	Mast pressure sensor	
	Load backrest 1000 mm	0
	Pallet locking system	0
Enviro- ment	Cold store -35 °C (in / out)	0
	Fully suspended operator compartment	•
	Height adjustable Linde Steering Wheel	0
	Knee protection	•
	Multifunction coloured display hour meter, maintenance indication, battery discharge indicator and internal fault code indication	•
မ	Fixed roundly-shaped backrest	•
(pla	Height adjustable backrest incl. foldable seating support	0
Workplace	Front bow	0
>	Vertical central pole	0
-	Support data terminal and power supply cable 24 V	0
	Support clipboard DIN A4 and support for scanner	0
	Shrink wrap pole and rear bin	0
	Rear lower storage	0
Mast	Mast protection: polycarbonate	•
	Mast protection: mesh	0
it/	Fork carriage: 560 mm	0
ks	Fork carriage length: 1200 mm or 1250 mm	0
cheme Forks	Load arms length: 2400 mm or 2500 mm	0
Attachement / Forks	Overhang: 800 mm	0
	Drive wheel polyurethane	
Axles and Tyres	Drive wheel cushion rubber, non marking and wet grip	0
pu	Single load wheels polyurethane	•
es a	Tandem load wheels polyurethane (greasable)	0
Axl	Standard castor wheel	•
	Power assisted steering	•
c	3 kW AC motor (maintenance free)	•
Drive and rake-Systen	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	0
	Battery compartment, Li-ION battery 4.5 kWh (205 Ah)/9.0 kWh (410 Ah) incl. side plug for opportunity charging	0
	Li-ION 24 V-Charger	0

CHARACTERISTICS



Linde BlueSpot™ and front LED light



Easy-to-use pallet locking



Intuitive Linde steering wheel



Front casted steel humper

Safety

- \rightarrow Automatic speed reduction in curves and increased braking performance in heavy loads offer maximum safety
- \rightarrow Regulated lowering to the load arms to allow soft landing of the load
- \rightarrow Automatic stop if the vehicle registers an unoccupied driver's platform or the emergency button is activated
- \rightarrow The driver's platform is positioned in front of the battery, giving him an optimum all-round view of the warehouse environment
- → Additional options such as front LED and Linde BlueSpot™ maximize safety in the warehouse

Ergonomics

- \rightarrow Liftable forks place pallet at optimum height, thus reducing physical strain on the operator
- \rightarrow Low access on both sides, 137 mm high, ensures quick boarding and alighting
- ightarrow For short distances, the operator can conveniently control the vehicle from both sides using the optional pedestrian function.
- \rightarrow Optional pallet locking device ensures safe transport and easy release of the second pallet
- \rightarrow Fully suspended operator's compartment reduces vibrations and shocks transmitted to steering wheel and platform

Handling

- \rightarrow 3 kW three-phase AC motor for effective acceleration to a top speed of 12 km/h
- \rightarrow Depending on application requirements lead-acid or optionally lithium-ion batteries are available
- \rightarrow Adjustable Linde Steering wheel provides intuitive operation with meaningful symbols indicating the key vehicle functions
- \rightarrow Electric steering centering with sensors on the ground ensures reliability on transport routes
- \rightarrow Initial lift facilitates transport over ramps and uneven surfaces

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 Engine and battery cover can be easily opened for access to the technical compartment
- \rightarrow Essential vehicle parameters can be read out via CAN bus connection via laptop
- \rightarrow Robust cast-steel bumper protects vehicle frame and operating platform to reduce 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:



Linde Material Handling GmbH Carl-von-Linde-Platz | 63743 Aschaffenburg | Germany Phone + 49 6021 99 0 | Fax + 49 6021 99 1570 www.linde-mh.com | info@linde-mh.com

Printed in Germany | 093.e.0,5.0819.IndA.Ki