

Linde Material Handling

Linde



Order Pickers

N20 LoL

Capacity 0.8 t | Series 1115

PB

ION

H2

Practical double order picker

- Long load arms and additional wrap-over lifting forks allow two pallets to be loaded at the same time without back strain
- Fully suspended operator's platform provides optimum protection against shock and vibrations
- Operator's platform at front provides a clear view when changing aisles
- Robust cast steel bumper protects chassis and operator's compartment from damage

STANDARD AND OPTIONAL EQUIPMENT

Manufacturer's type designation/equipment		N20 LoL
Safety	Front cast steel bumper	●
	Front rubber protection (mounted on the cast steel bumper)	○
	Linde BlueSpot – visual warning of truck presence integrated in the front top cover	○
	Automatic speed reduction when cornering	●
	Front foot protection	○
	Soft landing of forks (300 mm)	●
	Key switch	●
	Log in PIN code	○
Service	CAN bus technology	●
Digitalisation	Linde connect	○
	ac: access control PIN	○
	ac: access control RFID	○
	Data transmission Wifi	○
	Data transmission Online	○
	dt: crash detection	○
	an: usage analysis	○
	Bluetooth USB stick	○
	dt: trouble codes	○
Operation/ load handling	Inching controls (forward only or forward/backward)	○
	Rear initial lift and mast lift controls	●
	Low speed if initial lift lowered	●
	Initial lift electrical stop sensor	●
	Soft landing of forks	○
	Mast pressure sensor	●
	Load backrest 1000 mm	○
	Pallet locking system	○
Environ- ment	Cold store -35 °C (in/out)	○
Workplace	Fully suspended operator's compartment	●
	Height adjustable Linde Steering Wheel	○
	Knee protection	●
	Multifunction colour display: hour meter, battery discharge indicator, maintenance and internal fault code indication	●
	Fixed rounded backrest	●
	Height-adjustable backrest including folding seat	○
	Front bow	○
	Vertical central pole	○
	Support data terminal and power supply cable 24 V	○
	Support clipboard DIN A4 and support for scanner	○
	Shrink wrap pole and rear bin	○
Rear lower storage	○	
Mast	Mast protection: polycarbonate	●
	Mast protection: mesh	○
Attachment/ forks	Fork carriage width: 560 mm	○
	Fork carriage length: 1200 mm or 1250 mm	○
	Fork arm length: 2400 mm or 2500 mm	○
	Overhang: 800 mm	○
Axles and tyres	Drive wheel polyurethane	●
	Drive wheel cushion rubber, non marking and wet grip	○
	Single load wheels polyurethane	●
	Tandem load wheels polyurethane (greasable)	○
	Standard castor wheel	●
Drive and brake system	Power-assisted steering	●
	3 kW maintenance-free AC motor	●
	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, 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

MAST TABLE

SIMPLEX MAST (in mm)

Lift	h3: 750		h3: 912		h3: 1612	
Height measurements	h1: 1391 h4: 1391	h2: 750 h5: 115	h1: 1541 h4: 1541	h2: 912 h5: 115	h1: 2065 h4: 2132	h2: 1545 h5: 115
Manufacturer's type designation						
N20 LoL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional equipment

h1: Mast height, lowered

h2: Free lift

h3: Lift

h4: Mast height, extended

h5: Initial lift



TECHNICAL DATA (according to VDI 2198)

Characteristics	1.1	Manufacturer (abbreviation)		Linde MH
	1.2	Manufacturer's type designation		N20 LoL
	1.2a	Series		1115-00
	1.3	Drive		Battery
	1.4	Operation		Order picker
	1.5	Rated capacity/rated load	Q (t)	0.8; (0.8/1.2); 2.0 ¹⁾
	1.6	Load centre distance	c (mm)	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	1532/1602 ²⁾³⁾
	1.9	Wheelbase	y (mm)	2201/2271 ²⁾³⁾⁴⁾
Weight	2.1	Service weight	kg	1473 ⁵⁾
	2.2	Axle loading, laden front/rear	kg	1608/1865 ⁵⁾⁶⁾
	2.3	Axle loading, unladen front/rear	kg	1182/291 ⁵⁾
Tyres/chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		R+P/P; P+P/P
	3.2	Tyre size, front		Ø 254 × 102
	3.3	Tyre size, rear		Ø 85 × 85 (Ø 85 × 60) ⁷⁾
	3.4	Additional wheels (dimensions)		2x Ø 140 × 50
	3.5	Wheels, number front/rear (x = driven wheels)		1x + 1/2 (1x + 1/4) ⁷⁾
	3.6	Tread, front	b10 (mm)	491 ³⁾
	3.7	Tread, rear	b11 (mm)	380 ³⁾
Dimensions	4.2	Mast height, lowered	h1 (mm)	1391 ³⁾
	4.3	Free lift	h2 (mm)	750 ³⁾
	4.4	Lift	h3 (mm)	750 ³⁾
	4.5	Mast height, extended	h4 (mm)	1391 ³⁾
	4.6	Initial lift	h5 (mm)	115 ³⁾
	4.8	Seat height relating to SIP/stand height	h7 (mm)	867/1000 ³⁾⁹⁾¹⁰⁾
	4.10	Height of wheel arms	h8 (mm)	86 ¹¹⁾
	4.15	Height, lowered	h13 (mm)	92 ¹¹⁾
	4.19	Overall length	l1 (mm)	3967 ³⁾⁴⁾
	4.20	Length to fork face	l2 (mm)	1567 ³⁾⁴⁾
	4.21	Overall width	b1/b2 (mm)	800 ³⁾
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	76/178/2400 / 66/126/2400 ¹²⁾
	4.24	Fork carriage width	b3 (mm)	780 ³⁾
	4.25	Fork spread	b5 (mm)	560 ³⁾
	4.26	Distance between wheel arms/loading surfaces	b4 (mm)	255 (202) ³⁾¹³⁾
	4.31	Ground clearance, laden, below mast	m1 (mm)	135/20 ³⁾¹⁴⁾
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	135/20 ³⁾¹⁴⁾
4.33	Load dimension b12 × l6	b12 × l6 (mm)	2x 800 × 1200	
4.34	Aisle width predetermined load dimensions	Ast (mm)	4258 ⁴⁾¹⁵⁾¹⁶⁾	
4.35	Turning radius	Wa (mm)	3102/3172 ³⁾⁴⁾	
Performance data	5.1	Travel speed, laden/unladen	km/h	10/12 ¹⁷⁾
	5.1.1	Travel speed, laden/unladen, backwards	km/h	10/10 ¹⁷⁾
	5.2	Lifting speed, laden/unladen	m/s	0.12/0.2 (0.06/0.07) ³⁾¹⁸⁾
	5.3	Lowering speed, laden/unladen	m/s	0.3/0.3 (0.06/0.08) ³⁾¹⁸⁾
	5.8	Max. gradeability, laden/unladen	%	14.0/20.0
	5.9	Acceleration time, laden/unladen	s	6.0/4.8
5.10	Service brake		Electric/hydraulic	
Electric-engine	6.1	Drive motor rating S2 60 min	kW	3
	6.2	Lift motor rating at S3 15%	kW	2.2/10%
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		43 535/3PzS ¹⁹⁾
	6.4	Battery voltage/nominal capacity KS	(V)/(Ah) or kWh	24/375
	6.5	Battery weight (± 5%)	kg	272/315 ³⁾⁹⁾
	6.6	Energy consumption according to DIN EN 16796	kWh/h	0.59
	6.7	Turnover output according to VDI 2198	t/h	136.0
	6.8	Turnover efficiency according to VDI 2198	t/kWh	76
Drive/lifting mechanism	8.1	Type of drive unit		LAC
Additional data	10.7	Sound pressure level LpAZ (at the operator's seat)	dB(A)	< 85

1) Pallet truck capacity: on the fork arms only; on the fork arms/on the wheel arms; on the fork arms resting on the wheel arms in initial lift position

2) Forks upraised/lowered

3) (± 5 mm)

4) + 75 mm = 4 PzS side change

5) (± 10%)

6) Load distribution e.g. 1000 kg on the forks, 1000 kg on the load arms. Total load max. 2000 kg.

7) Figures in parentheses with tandem load wheels.

8) (0/-5 mm)

9) Min./max.

10) With optional operator's seat

11) (-0/+5 mm)

12) Forks/load arms

13) Load arms: 60(75)/125(150)/1115.

Values in parentheses at the load arms tip

14) (± 2 mm)

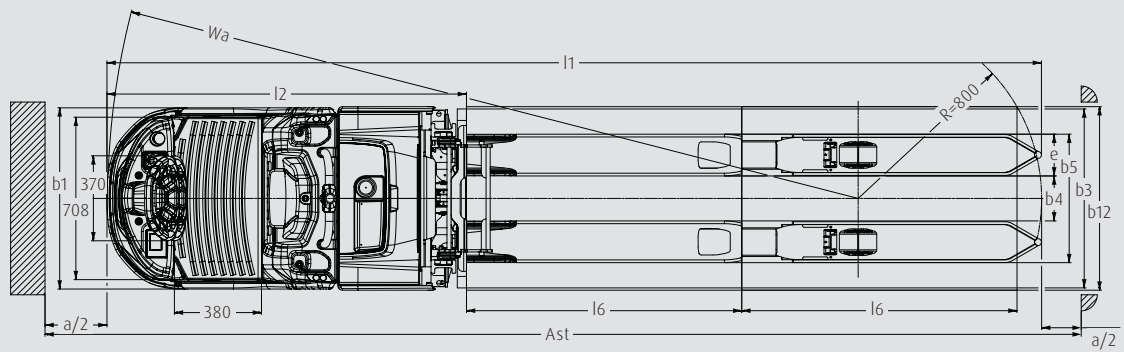
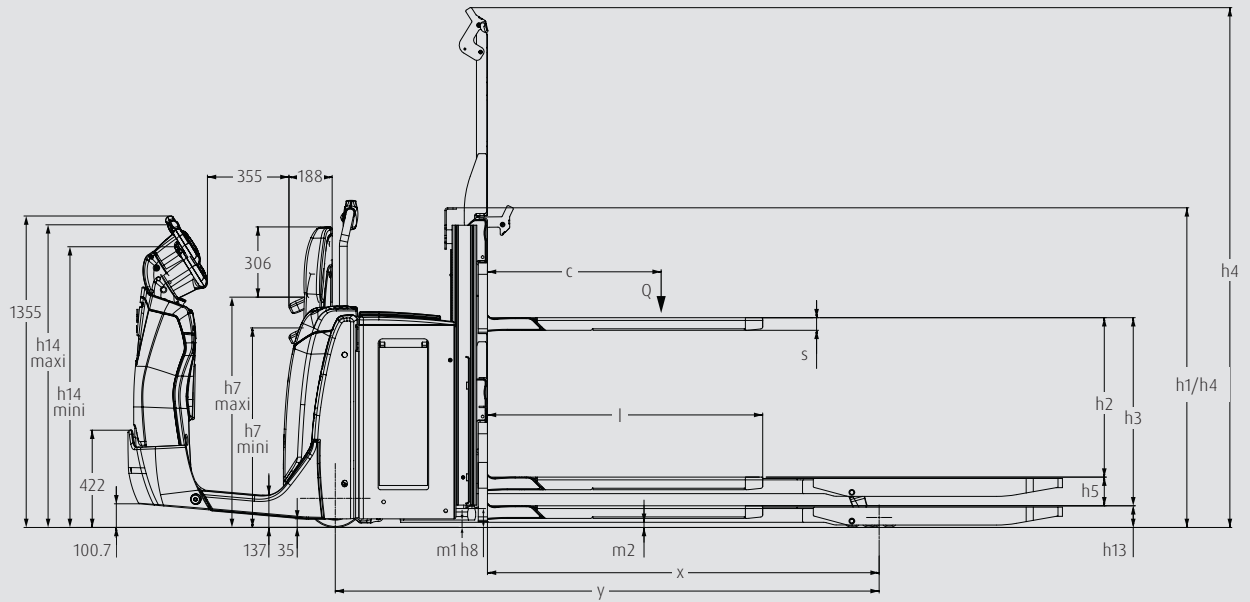
15) Including a 200 mm (min.) operating aisle clearance.

16) Forks upraised

17) (± 5%)

18) Figures in parentheses = initial lift

19) Lateral change



CHARACTERISTICS



Linde BlueSpot and front LED light

Safety

- Automatic speed reduction in curves and increased braking performance with heavy loads offer maximum safety
- Controlled lowering of the load arms provides soft landing of the load
- Automatic stop if no-one is on the platform or if the emergency button is activated
- Operator's platform at front provides a clear view when changing aisles
- Additional options such as front LED and Linde BlueSpot maximise safety in the warehouse



Easy-to-use pallet locking

Ergonomics

- Lifting forks provide an optimum picking height reducing back strain
- Low 137 mm platform ensures easy on/off access
- Optional inching controls allow easy short distance movement for the next pick
- Optional pallet locking device ensures safe transport and easy release of the second pallet
- Fully suspended operator's platform reduces shocks and vibration in operation



Intuitive Linde Steering Wheel

Handling

- 3 kW three-phase AC motor for powerful acceleration to a top speed of 12 km/h
- Lead acid or Li-ION batteries available to suit the application
- Adjustable Linde Steering Wheel provides intuitive operation with clear symbols on all controls
- Self-centering electric steering speeds up operation
- Initial lift eases operation over ramps and uneven surfaces



Front cast steel bumper

Service

- 1000 operating hour service intervals
- Maintenance-free three-phase AC motors and self-adjusting brakes reduce service costs
- Motor and battery covers provide easy access to technical compartment
- Essential vehicle parameters can be checked or changed via a laptop
- Robust cast steel bumper protects chassis and operator's platform from collision damage

Subject to modification in the interest of progress. Illustrations and technical specifications could include options and are not binding for actual constructions. All dimensions subject to usual tolerances.



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