



## 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

# 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 <sup>1)</sup>
	1.6	Load centre distance	c (mm)	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	1532/1602 <sup>2)</sup>
	1.9	Wheelbase	y (mm)	2201/2271 <sup>2)</sup> 3)
Weight	2.1	Service weight	kg	1473 <sup>5)</sup>
	2.2	Axle loading, laden front/rear	kg	1608/1865 <sup>5)</sup> 6)
	2.3	Axle loading, unladen front/rear	kg	1182/291 <sup>5)</sup>
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) <sup>7)</sup>
	3.4	Additional wheels (dimensions)		2x Ø 140 × 50
	3.5	Wheels, number front/rear (x = driven wheels)		1x + 1/2 (1x + 1/4) <sup>7)</sup>
	3.6	Tread, front	b10 (mm)	491 <sup>9)</sup>
	3.7	Tread, rear	b11 (mm)	380 <sup>9)</sup>
Dimensions	4.2	Mast height, lowered	h1 (mm)	1391 <sup>9)</sup>
	4.3	Free lift	h2 (mm)	750 <sup>9)</sup>
	4.4	Lift	h3 (mm)	750 <sup>9)</sup>
	4.5	Mast height, extended	h4 (mm)	1391 <sup>9)</sup>
	4.6	Initial lift	h5 (mm)	115 <sup>8)</sup>
	4.8	Seat height relating to SIP/stand height	h7 (mm)	867/1000 <sup>9)</sup> 10)
	4.10	Height of wheel arms	h8 (mm)	86 <sup>11)</sup>
	4.15	Height, lowered	h13 (mm)	92 <sup>11)</sup>
	4.19	Overall length	l1 (mm)	3967 <sup>3)</sup> 4)
	4.20	Length to fork face	l2 (mm)	1567 <sup>3)</sup> 4)
	4.21	Overall width	b1/b2 (mm)	800 <sup>3)</sup>
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	76/178/2400 / 66/126/2400 <sup>2)</sup>
	4.24	Fork carriage width	b3 (mm)	780 <sup>3)</sup>
	4.25	Fork spread	b5 (mm)	560 <sup>3)</sup>
	4.26	Distance between wheel arms/loading surfaces	b4 (mm)	255 (202) <sup>3)</sup> 13)
	4.31	Ground clearance, laden, below mast	m1 (mm)	135/20 <sup>2)</sup> 14)
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	135/20 <sup>2)</sup> 14)
	4.33	Load dimension b12 × l6	b12 × l6 (mm)	2x 800 × 1200
4.34	Aisle width predetermined load dimensions	Ast (mm)	4258 <sup>4)</sup> 15)16)	
4.35	Turning radius	Wa (mm)	3102/3172 <sup>2)</sup> 4)	
Performance data	5.1	Travel speed, laden/unladen	km/h	10/12 <sup>17)</sup>
	5.1.1	Travel speed, laden/unladen, backwards	km/h	10/10 <sup>17)</sup>
	5.2	Lifting speed, laden/unladen	m/s	0.12/0.2 (0.06/0.07) <sup>5)</sup> 18)
	5.3	Lowering speed, laden/unladen	m/s	0.3/0.3 (0.06/0.08) <sup>5)</sup> 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 <sup>19)</sup>
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah) or kWh	24/375
	6.5	Battery weight (± 5%)	kg	272/315 <sup>20)</sup>
	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.

14) Values in parentheses at the load arms tip

15) (± 2 mm)

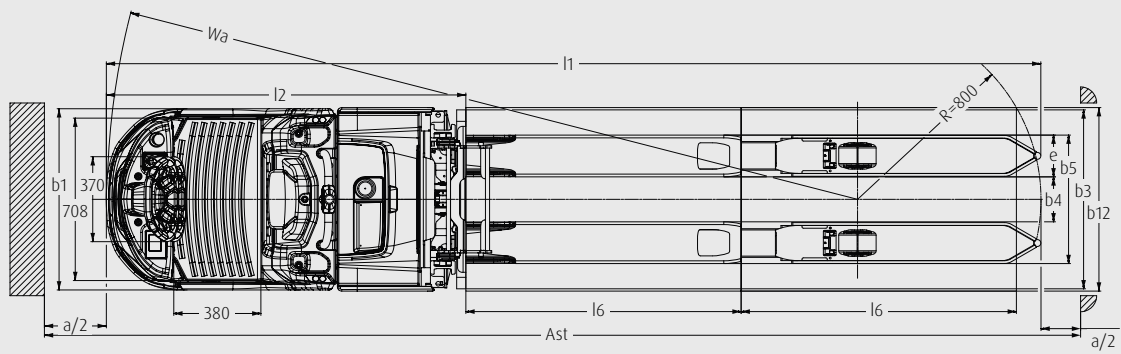
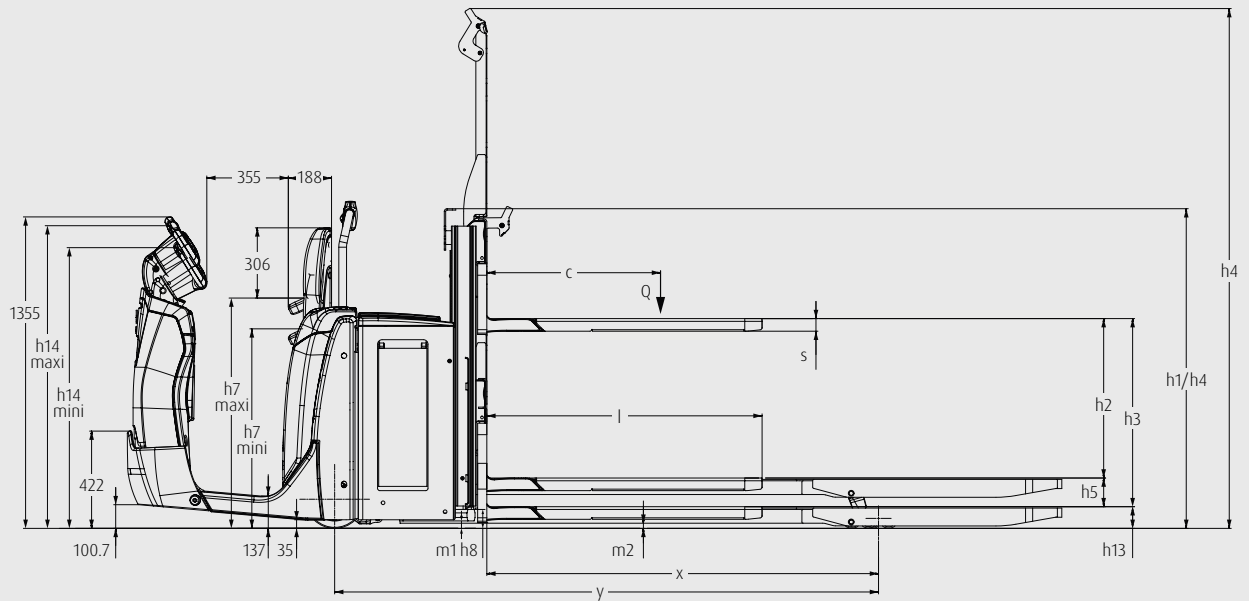
16) Including a 200 mm (min.) operating aisle clearance.

17) Forks upraised

18) (± 5%)

19) Figures in parentheses = initial lift

20) Lateral change



# 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="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Optional equipment

**h1:** Mast height, lowered

**h2:** Free lift

**h3:** Lift

**h4:** Mast height, extended

**h5:** Initial lift



# 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

# 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

Presented by:

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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