



Order Pickers

N20 D

Capacity 1.0 t | Series 1115

PB ION H₂

Powerful double-deck order picker

- Thanks to the double forks, two pallets can be loaded and transported simultaneously
- Ergonomic lift enables the operator to pick even heavy goods at an ergonomic height
- Independent support of each pallet is ideal for transporting heavy and pressure-sensitive goods
- Fully suspended operating platform protects against shocks and vibrations
- Operator's platform in front of the battery ensures maximum manoeuvrability and a clear view when entering cross-aisles

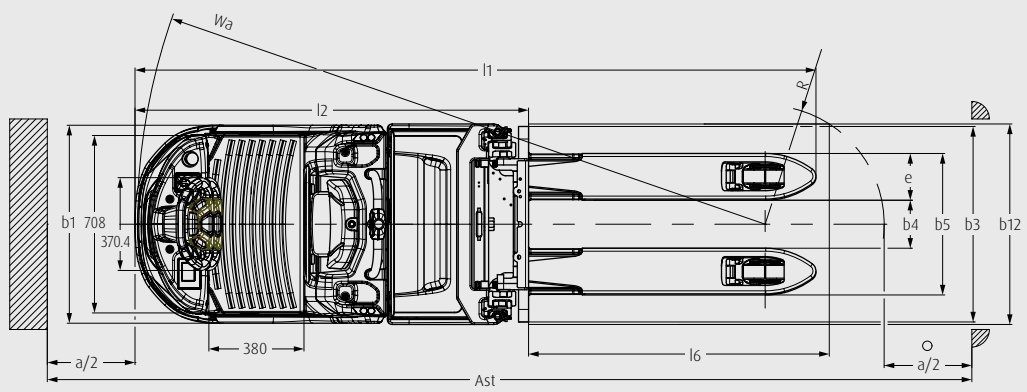
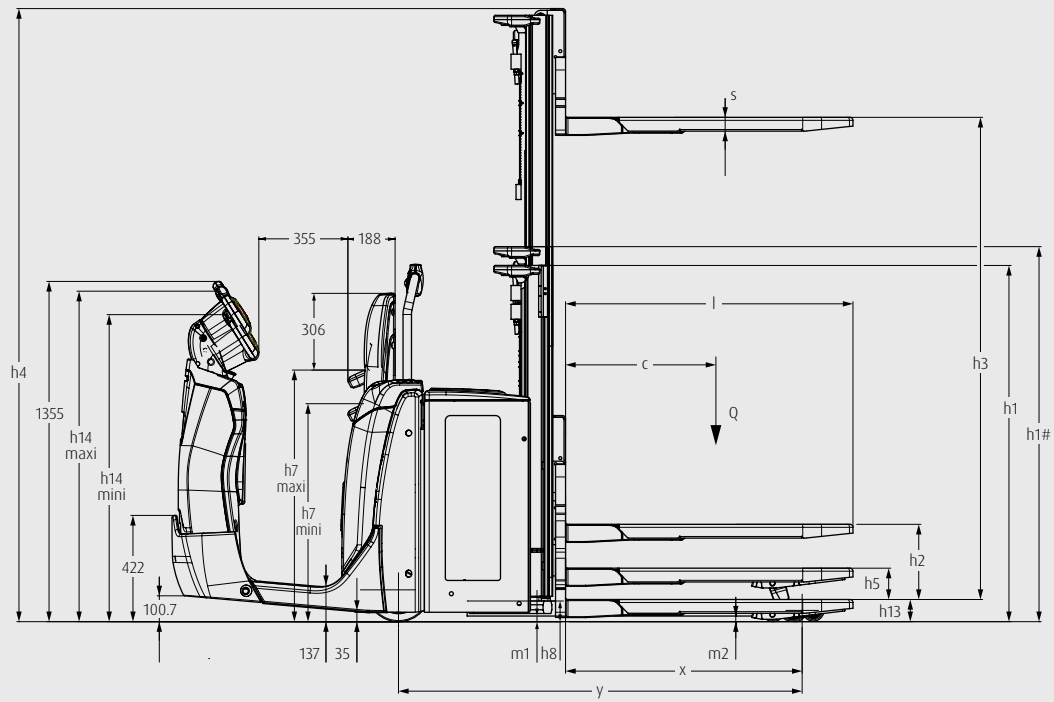
TECHNICAL DATA (according to VDI 2198)

Characteristics	1.1	Manufacturer (abbreviation)		Linde MH
	1.2	Manufacturer's type designation		N20 D
	1.2a	Series		1115-00
	1.3	Drive		Battery
	1.4	Operation		Order picker
	1.5	Rated capacity/rated load	Q (t)	1.2 ; 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)	874/944 ²⁾³⁾
	1.9	Wheelbase	y (mm)	1541/1611 ²⁾³⁾⁴⁾
Weight	2.1	Service weight	kg	1417 ⁵⁾
	2.2	Axle loading, laden front/rear	kg	1566/1851 ⁹⁾⁶⁾
	2.3	Axle loading, unladen front/rear	kg	1152/265 ⁹⁾
Tyres/chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		P - P/P (R - 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)		Ø 140 × 50
	3.5	Wheels, number front/rear (* = 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)	1415 ³⁾
	4.3	Free lift	h2 (mm)	150 ³⁾
	4.4	Lift	h3 (mm)	1924 ³⁾
	4.5	Mast height, extended	h4 (mm)	2444 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)	80 ¹¹⁾
	4.15	Height, lowered	h13 (mm)	86 ¹¹⁾
	4.19	Overall length	l1 (mm)	2720 ³⁾⁴⁾
	4.20	Length to fork face	l2 (mm)	1570 ³⁾⁴⁾
	4.21	Overall width	b1/b2 (mm)	800 ³⁾
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	71/180/1150 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 (230) 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)	1200 × 800
	4.34	Aisle width predetermined load dimensions	Ast (mm)	3250 ⁴⁾¹⁵⁾¹⁶⁾
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	3258 ⁴⁾¹⁵⁾¹⁶⁾
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	3161 ⁴⁾¹⁵⁾¹⁶⁾	
4.35	Turning radius	Wa (mm)	2445/2515 ²⁾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
	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 K5	(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	0.83	
6.6.1	CO2 equivalent according to DIN EN 16796	kg/h	0.45	
6.7	Turnover output according to VDI 2198	t/h	45.6	
6.8	Turnover efficiency according to VDI 2198	t/kWh	31.4	
Drive/lifting mechanism	8.1	Type of drive unit		AC control
Additional data	10.7	Sound pressure level LpAz (at the operator's seat)	dB(A)	< 85
	10.8	Level of vibration felt by the operator	m/s ²	0.7

16) Forks upraised
17) (± 5%)
18) Figures in parentheses = initial lift
19) Lateral change

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) Reach legs 75 × 150 × 1115
13) at the load arms tip
14) (± 2 mm)
15) Including a 200 mm (min.) operating aisle clearance.

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.



MAST TABLES

STANDARD MAST (in mm)

Lift	h3: 1574		h3: 1724		h3: 1924	
Height measurements	h1: 1240 h2: 150 h5: 115	h1#: 1315 h4: 2094	h1: 1315 h2: 150 h5: 115	h1#: 1390 h4: 2244	h1: 1415 h2: 150 h5: 115	h1#: 1490 h4: 2444
Manufacturer's type designation						
N20 D	○		○		○	

○ Optional equipment

h1: Mast height, lowered
h3: Lift

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

h2: Free lift
h5: Initial lift



STANDARD AND OPTIONAL EQUIPMENT

Manufacturer's type designation/equipment		N20 D
Safety	Front cast steel bumper	●
	Front rubber protection (mounted on the cast steel bumper)	○
	Linde BlueSpot – optical warning light for pedestrians and other operators	○
	Linde Curve Assist – automatic operating speed reduction when cornering	●
	Front foot protection	○
	Mast stop landing (300 mm)	●
	Key switch	●
	PIN code log-on	○
Service	CAN bus technology	●
Digitalisation	Linde connect:desk – local fleet management with various functional modules	○
	Linde connect:ac access control – via PIN or RFID	○
	Data transmission WiFi	○
	Data transmission online	○
	Linde connect:dt crash detection – allows electronic impact damage monitoring	○
	Linde connect:an usage analysis – digital usage analysis	○
	Bluetooth USB stick	○
	Linde connect:dt trouble codes – automated error code transmission from truck	○
Operation/ load handling	Inching control (forward only or forward/backward)	○
	Rear initial and mast lift control	●
	Low speed if initial lift is low	●
	Initial lift electrical stop sensor	●
	Soft landing of forks	○
	Mast pressure sensor	●
	Load backrest 1000 mm	○
Environment	Cold store protection -35°C (in/out) – with non-slip steel platform	○
Workplace	Fully suspended operator's compartment – both standing platform and steering unit are suspended	●
	Height adjustable Linde Steering Wheel	○
	Knee protection	●
	Multifunction colour display hour meter, maintenance indication, battery discharge indicator and internal fault code indication	●
	Fixed operator's backrest	●
	Height-adjustable backrest incl. folding seat support	○
	Front bow	○
	Vertical central pole	○
	Support for data terminal and power supply cable 24 V	○
	Support for DIN A4 clipboard 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 length: 1150 mm	●
	Load end overhang (distance between the load wheels and the fork tips): 188 mm	●
Axles and tyres	Drive wheel, polyurethane	●
	Drive wheel, cushion rubber, non-marking or wet grip	○
	Single load wheels, polyurethane	●
	Tandem load wheels, polyurethane (greasable)	○
	Standard castor wheel	●
Drive and brake system	Electromagnetic braking system	●
Energy	Battery compartment, side change 3 PzS (345 Ah/465 Ah) – easy and quick change with ergonomic lever and roller bed	●
	Battery compartment, side change 4 PzS (460 Ah/620 Ah) – easy and quick change with ergonomic lever and roller bed	○
	Battery compartment, Li-ION battery incl. side plug for opportunity charging	○
	Li-ION 24 V charger	○
	Linde HyPower Fuel Cell 24 V – easy and quick change with roller bed	○

● Standard equipment

○ Optional equipment

CHARACTERISTICS



Linde BlueSpot

Safety

- Rounded edges of steel chassis minimises risks while operating
- Automatic speed reduction in curves for safe travel through the warehouse
- Operator's position in front of the battery provides optimum all-round view of the warehouse environment
- Robust steel bumper protects truck chassis and operating platform
- Additional options such as front LED and Linde BlueSpot lights maximise safety



Low step-in height

Ergonomics

- Low entry height platform of only 137 mm makes frequent on/off access easy
- Inching buttons make it easy to move up one of two pallet positions for the next pick
- Fully suspended operator's compartment reduces transmission of vibrations and shocks to the operator
- An additional rear handle gives optimum support when reversing or when stepping onto the truck



Intuitive Linde Steering Wheel

Handling

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



Front cast steel bumper

Service

- Up to 1000 operating hours between service checks
- Maintenance-free three-phase AC technology and adjustment-free brakes reduce service costs
- Clearly arranged cable harnesses and cables for easy and quick maintenance
- Vehicle parameters can be checked via CAN bus connection to engineer's laptop
- Robust cast steel bumper on the front protects the operator's compartment and reduces 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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