

Order Picker N16 Li

Capacity 0.8 t | Series 1115

Maneuverable picking assistant

- \rightarrow Operator's platform in front of the battery ensures maximum maneuverability and a clear view of the warehouse environment
- \rightarrow Small turning circle facilitates excellent maneuvering in narrow aisles
- \rightarrow Liftable forks enable order picking at ergonomic height
- ightarrow Fully suspended operator's platform reduces vibrations and shocks while driving

TECHNICAL DATA (According to VDI 2198)

1.1	Manufacturer		Linde
1.2	Model		N16 Li
1.2.a	Series		1115-00
1.3.	Power Unit		Battery
1.4	Operation		Preparation
1.5	Load capacity/Load, main lift only; main lift/initial lift; initial lift only	Q (t)	0.8; 1.6 1)
1.6	Load centre	c (mm)	600
1.8	Axle centre to fork face	x (mm)	945/875 ²⁾³⁾
1.9	Wheelbase	y (mm)	1546/1476 ^{2) 4)}
2.1	Service weight	(kg)	1282
2.2	Axle load with load, front/rear	(kg)	1322/1553
2.3	Axle load without load, front/rear	(kg)	1041/241 2)
3.1	Tyres rubber, SE, pneumatic, polyurethane		R + P/P; P + P/P
3.2	Tyre size, front		ø 254 x 102
3.3	Tyre size, rear		2x ø 85 x 60 (ø 85 x 85) ⁵⁾
3.4	Additional wheels		2x ø 140 x 50
3.5	Wheels, number front/rear (x = driven)		1x + 1/2 (1x + 1/4) ⁵⁾
3.6	Track width, front	b10 (mm)	491
3.7	Track width, rear	b11 (mm)	380
4.2	Height of mast, lowered	h1 (mm)	1422
4.3	Free lift	h2 (mm)	550
4.4	Lift	h3 (mm)	550
4.6	Initial lift	h5 (mm)	115
4.8	Height of seat/stand on platform	h7 (mm)	867/1000
4.10	Height of wheel arms	h8 (mm)	80
4.15	Height at the end of the forks in the lowered position	h13 (mm)	86
4.19	Overall length	l1 (mm)	2655 4)
4.20	Length to fork face		1505 4)
4.21	Overall width	b1 (mm)	800
4.22	Fork dimensions	s/e/l (mm)	50/180/1150
4.23	Load arm dimensions	s/e/l (mm)	75/150/1115
4.24	Width of fork carriage	b3 (mm)	559
4.25	Width over forks	b5 (mm)	560
4.26	Internal width of the load arm	b4 (mm)	255
4.31	Ground clearance, below mast	m1 (mm)	20/145 2)
4.32	Ground clearance, centre of wheelbase	m2 (mm)	20/145 2)
4.33	Load dimensions b12 x l6	b12 x l6 (mm)	800 x 1200 lengthwise
4.34	Aisle width with predetermined load dimensions	Ast (mm)	2997 / 2972 ^{4) 7)}
4.34.1	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	3124 / 3095 4) 7)
4.34.2	Aisle width with pallet 800 x 1200 across forks	Ast (mm)	3211/3176 4)7)
4.34.2	Turning radius	Wa (mm)	2450/2380 4)
	Travel speed, with/without load		
5.1		(km/h)	10/12
5.1.1	Travel speed, backward, with/without load	(km/h)	10
5.2	Lifting speed, initial lift, with/without load	(m / s)	0.06/0.07
	Lifting speed, main lift, with/without load	(m / s)	0.16/0.32
5.3	Lowering speed, initial lift, with/without load	(m / s)	0.06/0.08
5.0	Lowering speed, main lift, with/without load	(m/s)	0.17/0.19
5.8	Climbing ability, with/without load	(%)	16/20
5.9	Acceleration time (10 m), with/without load	(5)	5.6/4.9
5.10	Service brake	(1)	Electro-hydraulic
6.1	Drive motor rating S2 60 min	(kW)	3.0
6.2	Lift motor rating at S3 5 %	(kW)	2.2
6.3	Battery according to DIN 43535/36 A/B/C/no		45535 (3 PzS Lateral Change)
6.4	Battery voltage/capacity (5 h)	(V/Ah)	24/375
6.5	Battery weight (± 10 %)	(kg)	290
6.6	Energy consumption according to VDI cycle normalized	(kWh/h)	0.48
6.7	Turnover output according to VDI cycle	(T/h)	118.4
6.8	Consumption according to turnover output	(kWh/h)	1.63
8.1	Type of drive control		LAC
10.7	Noise level at operator's ear	(dB(A))	< 85
	Level of vibration felt by the operator	(m / s ²)	0.7

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

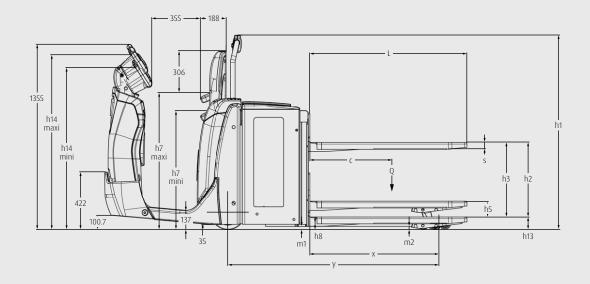
2) Low/high position fork arm

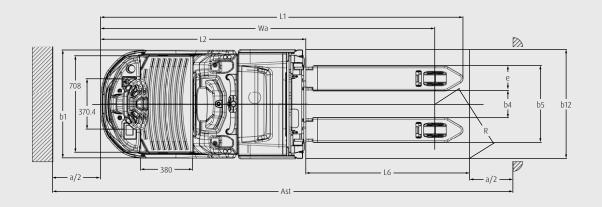
3) Value with a Simplex mast

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

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: 550	
Height measurements	h1: 810 h2: 550 h3: 550 h4: 810 h5: 115	
Model		
N16 Li	0	

 \bigcirc Optional equipment – Not available

h1: Height of mast, lowered

h2: Free lift

h3: Lift h4

h4: Height of mast, extended

h5: Initial lift



STANDARD AND OPTIONAL EQUIPMENT

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Fork carriage: 560 mm ● Fork carriage: 560 mm ● Fork length: 1150 mm ● Overhang: 188 mm ● Drive wheel polyurethane ● Drive wheel polyurethane ● Single load wheels polyurethane ● Tandem load wheels polyurethane (greasable) ● Standard castor wheel ● Power assisted steering ● 3 kW AC motor (maintenance free) ● Electromagnetic braking system ● Battery compartment, side change 3 P2S (345 Ah/375 Ah), incl. ergonomic lever and metal rollers ● Battery compartment, side change 4 P2S (460 Ah/500 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 ●		Shrink wrap pole and rear bin	
Drive wheel polyurethane ● Drive wheel cushion rubber, non marking and wet grip ● Single load wheels polyurethane ● Tandern load wheels polyurethane (greasable) ● Standard castor wheel ● Power assisted steering ● 3 kW AC motor (maintenance free) ● Electromagnetic braking system ● Battery compartment, side change 3 PzS (345 Ah/375 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 ●		Rear lower storage	0
Drive wheel polyurethane ● Drive wheel cushion rubber, non marking and wet grip ● Single load wheels polyurethane ● Tandern load wheels polyurethane (greasable) ● Standard castor wheel ● Power assisted steering ● 3 kW AC motor (maintenance free) ● Electromagnetic braking system ● Battery compartment, side change 3 PzS (345 Ah/375 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 ●	s s	Fork carriage: 560 mm	•
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Power assisted steering • 3 kW AC motor (maintenance free) • Electromagnetic braking system • Battery compartment, side change 3 PzS (345 Ah/375 Ah), incl. ergonomic lever and metal rollers • Battery compartment, side change 4 PzS (460 Ah/500 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 •		Overhang: 188 mm	•
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Power assisted steering • 3 kW AC motor (maintenance free) • Electromagnetic braking system • Battery compartment, side change 3 PzS (345 Ah/375 Ah), incl. ergonomic lever and metal rollers • Battery compartment, side change 4 PzS (460 Ah/500 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 •	an		
Power assisted steering • 3 kW AC motor (maintenance free) • Electromagnetic braking system • Battery compartment, side change 3 PzS (345 Ah/375 Ah), incl. ergonomic lever and metal rollers • Battery compartment, side change 4 PzS (460 Ah/500 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 •	kles	Tandem load wheels polyurethane (greasable)	0
3 kW AC motor (maintenance free) Electromagnetic braking system Battery compartment, side change 3 PzS (345 Ah/375 Ah), incl. ergonomic lever and metal rollers Battery compartment, side change 4 PzS (460 Ah/500 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 O O 	Ă,	Standard castor wheel	•
Electromagnetic braking system Battery compartment, side change 3 PzS (345 Ah/375 Ah), incl. ergonomic lever and metal rollers Battery compartment, side change 4 PzS (460 Ah/500 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 O O 		Power assisted steering	•
		3 kW AC motor (maintenance free)	
		Electromagnetic braking system	•
		Battery compartment, side change 3 PzS (345 Ah/375 Ah), incl. ergonomic lever and metal rollers	•
	Dri rake	Battery compartment, side change 4 PzS (460 Ah/500 Ah), incl. ergonomic lever and metal rollers	
Li-ION 24 V-Charger O	8	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	0

• Standard equipment \bigcirc Optional equipment – Not available

CHARACTERISTICS



Linde BlueSpot™ and front LED light



Intuitive Linde steering wheel



Safety

- \rightarrow Three-part brake system adapts flexibly to both the environment and the load weight
- → Electromagnetic service brake coupled to deadman switch and emergency button for maximum safety
- \rightarrow Hydraulically assisted brake boosts braking performance as load weight increases
- \rightarrow The vehicle brakes automatically when the drive control is released
- \rightarrow Options such as front LED and Linde BlueSpot^m maximize safety in the warehouse

Ergonomics

- ightarrow Operator's platform with low access for easy boarding and disembarking
- ightarrow Operator commissions at back-friendly height thanks to the fork lift
- ightarrow Pedestrian operation for convenient control over short distances
- ightarrow Height adjustable steering wheel with intuitive controls for easy operation
- ightarrow Quick training of new drivers through meaningful symbols on the control elements

Handling

- ightarrow 3 kW three-phase AC motor for effective acceleration to a top speed of 12 km/h
- \rightarrow High stability due to four-point contact with the ground
- ightarrow Initial lift facilitates transport over ramps and uneven surfaces
- ightarrow Multifunctional display always informs about the current charge status of the order picker
- \rightarrow Optional Autolift automatically lifts and lowers forks, eliminating unnecessary movements
- → Depending on application requirements, lead-acid or optionally lithium-ion batteries are available





Front casted steel bumper

Service

- \rightarrow Up to 1000 operating hours without service check
- → Maintenance-free three-phase AC technology and adjustment-free brakes reduce service effort
- \rightarrow Service components easily accessible after removal of a service panel
- \rightarrow Essential vehicle parameters can be read out via CAN bus connection via laptop
- \rightarrow Robust cast-steel bumper at the front of the vehicle 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:

Linde Material Handling GmbH



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