



Electric Medium-Level Order Picker 1000 kg V10

SERIES 015

Safety

The V10 truck is designed to guarantee the operator's safety. Its outstanding visibility through and to either side of the mast offers the highest level of security. The low cab step height increases safety, and makes the truck as easy to use at maximum height as at floor level. The V10 will only move once the deadman's switch, which is located on the floor, is activated.

Performance

Efficiency and high-performance are the best words to describe the V10 medium-level order picker. It is capable of picking at heights up to 3700mm. Its powerful and economical drive unit combines optimal performance with low energy consumption and is extremely resistant.

Comfort

Built to ensure high-performance, the V10 truck is also very comfortable for the operator. Regardless of the weight of the load, the cab always sets it down gently thanks to the hydraulic cushioning of the cylinder during the stroke process. Suspension-mounted, the platform with its several storage compartments absorbs shocks and vibrations that may occur during travel lifting and lowering motions.

Reliability

Our expertise in material handling construction is the guarantee that the V10 order picker is a truck you can rely on. Thanks to the easy maintenance and programming, downtimes are reduced and throughput of goods increased. Furthermore, other technical aspects such as the central servicing and diagnosis interface, and a hood that opens up wide even in an aisle, make the V10 an extremely reliable machine.

Productivity

Based on the latest ergonomic standards, the working environment allows the driver to achieve a high throughput in order picking. The integrated mast, console design and LED wheel position indicator make the V10 a very manoeuvrable truck, fully adapted to narrow aisles.

Linde Material Handling

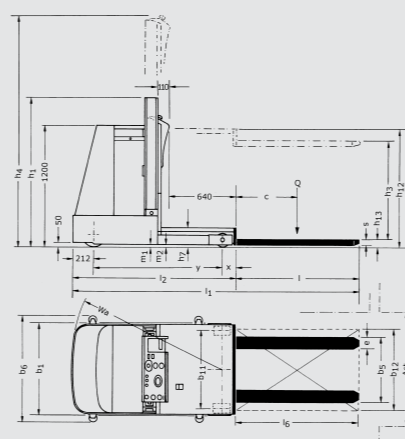
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Technical data (according to VDI 2198)

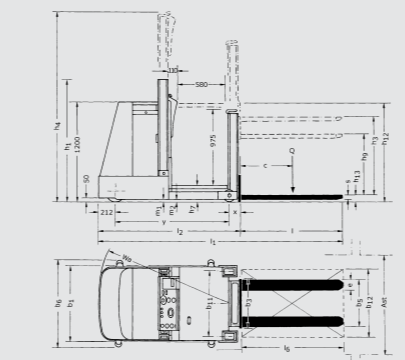
		LINDE					
		V10	V10	V10	V10		
Characteristics	1.1	Manufacturer	LINDE	LINDE	LINDE	LINDE	
	1.2	Model designation	Simplex mast low lift ①	Simplex mast low lift with supplementary lift ②	Simplex mast high lift without supplementary lift ③	Simplex mast high lift with supplementary lift ④	
	1.3	Power type: battery, diesel, petrol, LP gas, mains power	Battery	Battery	Battery	Battery	
	1.4	Operation: manual, pedestrian, stand-on, seated, order picker	Order Picker	Order Picker	Order Picker	Order Picker	
	1.5	Load capacity	Q (kg)	1000	1000	1000	
	1.6	Load centre distance	c (mm)	400/600	400/600	400/600	
Weights	1.8	Axle centre to fork face	x (mm)	130	130	130	
	1.9	Wheelbase	y (mm)	1320	1410	1320	1410
	2.1	Service weight	kg	1475 ¹⁾	1575 ¹⁾	1810 ¹⁾	1910 ¹⁾
Chassis	2.2	Axle load with load, front/rear (drive side/load side)	kg	315/2160	315/2260	470/2340	470/2440
	2.3	Axle load without load, front/rear (drive side/load side)	kg	880/595	880/695	1010/800	1010/900
	3.1	Tyres: solid rubber, contoured solid, pneumatic, polyurethane		Polyurethane/Polyurethane	Polyurethane/Polyurethane	Polyurethane/Polyurethane	Polyurethane/Polyurethane
	3.2	Tyre size, front (drive side)	mm	ø 250 x 100	ø 250 x 100	ø 250 x 100	ø 250 x 100
	3.3	Tyre size, rear (load side)	mm	ø 150 x 100	ø 150 x 100	ø 150 x 100	ø 150 x 100
	3.5	Wheels, number front/rear (drive side/load side) (x=driven)		1x/2	1x/2	1x/2	1x/2
	3.6	Track width, front (drive side)	b10 (mm)	0	0	0	0
Dimensions	3.7	Track width, rear (load side)	b11 (mm)	768	768	768	768
	4.2	Height of mast, lowered	h1 (mm)	1470	1470	2200	2200
	4.3	Free lift	h2 (mm)	-	-	-	-
	4.4	Lift	h3 (mm)	965	965	1700	1700
	4.5	Height of mast, extended	h4 (mm)	2290	2290	3023	3950
	4.7	Height of overhead guard (cabin)	h6 (mm)	-	-	2250	2250
	4.8	Height of seat/stand-on platform	h7 (mm)	200	200	200	200
	4.11	Supplementary lift	h9 (mm)	-	740	-	740
	4.14	Platform height, raised	h12 (mm)	1165	1165	1900	1900
	4.15	Fork height lowered	h13 (mm)	85	85	85	85
	4.19	Overall length	l1 (mm)	2465/2865	2555/2955	2465/2865	2555/2955
	4.20	Length to fork face	l2 (mm)	1665	1755	1665	1755
	4.21	Overall width	b1/b2 (mm)	880	880	880	880
	4.22	Fork dimensions	s/e/l (mm)	60/120/800 or 1200	60/120/800 or 1200	60/120/800 or 1200	60/120/800 or 1200
	4.23	Fork carriage to DIN 15 173, class/form A, B		no	no	no	no
	4.24	Width of fork carriage	b3 (mm)	-	640/560	640/560	640/560
	4.25	Fork spread, minimum/maximum	b5 (mm)	640/560	640/560	640/560	640/560
	4.27	Width over guide rollers	b6 (mm)	1280/1080	1280/1080	1280/1080	1280/1080
	4.31	Ground clearance mast	m1 (mm)	30 ²⁾	30 ²⁾	30 ²⁾	30 ²⁾
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30 ²⁾	30 ²⁾	30 ²⁾	30 ²⁾
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	1380	1380	1380	1380
4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	1080	1080	1080	1080	
4.35	Turning radius	Wa (mm)	1530	1620	1530	1620	
4.41	End aisle width, with/without load	Au (mm)	2840/3120	2930/3210	2840/3120	2930/3210	
Performance	5.1	Travel speed, with/without load	km/h	9.0/9.0	9.0/9.0	9.0/9.0	9.0/9.0
	5.2	Lifting speed, with/without load	m/s	0.10/0.15	0.10/0.15	0.10/0.15	0.10/0.15
	5.3	Lowering speed, with/without load	m/s	0.25/0.24	0.25/0.24	0.25/0.24	0.25/0.24
	5.9	Acceleration time, with/without load	s	7.8/6.5	7.8/6.5	7.8/6.5	7.8/6.5
	5.10	Service brake		Regenerative	Regenerative	Regenerative	Regenerative
Drive	6.1	Drive motor, 60 minute rating	kW	2.1	2.1	2.1	2.1
	6.2	Lift motor, 15 % rating	kW	2.0	2.0	3.0	3.0
	6.3	Battery according to IEC		254-2; A	254-2; A	254-2; A	254-2; A
	6.4	Battery voltage/rated capacity (5h)	V/Ah	24/440L (560L)	24/440L (560L)	24/560L (440L)	24/560L (440L)
	6.5	Battery weight (± 5 %)	kg	380 (510)	380 (510)	510 (380)	510 (380)
Other	8.1	Type of drive control		MOSFET	MOSFET	MOSFET	MOSFET
	8.4	Noise level at operator's ear	dB (A)	69.8	69.8	69.8	69.8

1) Values including battery, see line 6.5
2) Sensors, antennas, min. 10 mm

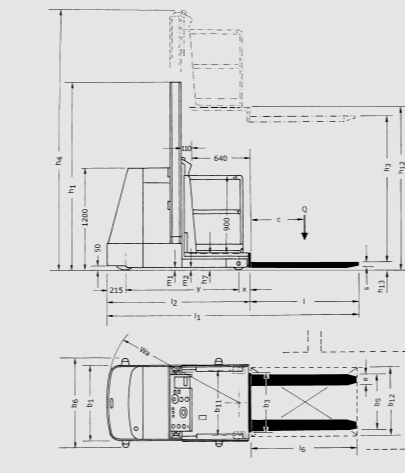
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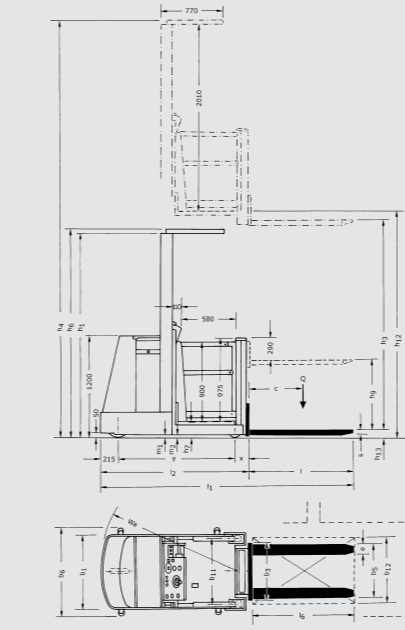
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Equipment

Standard equipment

Operators compartment

Suspension-mounted Platform
Very soft and comfortable platform surface
Deadman's pedal comfortably flush with floor
Electric steering with defined centre position
Steering knob
Wheel position indicator
Regenerative braking
Platform wideness from 880mm - 1500mm
Very low step on height for easy on and off

Mast/forks

Simplex mast 965 mm lifting height
Different forks

Safety

All travel and lift motions interlocked through deadman's switch and integrated two-hand operation
Spring-load brake on drive motor as stationary safety brake

Motors

2,0 KW lift motor
3,0 KW lift motor ($h_1 \geq 2200\text{mm}$)
2,1 KW drive motor

Optional equipment

Operators compartment

Overhead guard
Operator compartment lighting
Worklamps
Rear view mirror
Triple side barriers
Cushioning for triple side barriers
Combination battery charge indicator and hour meter
Operation from load or mast side
Padding of the loadside rear wall as far as the knee area
Steering wheel with spinner knob
Alternative platform and chassis widths
Clipboard writing stand for storage console

Mast/Forks

Three mast heights ($h_3 = 965\text{mm}, 1700\text{mm}$ or 1900mm)
Intermediate lift stop
Lift/lower follower storage console
Adapter shelf for data terminal, printer and scanner
Alternative fork carriages for different pallets

Environment

Mechanical guidance with/without aisle recognition
Order-picking operation from floor level whilst walking with the machine
Forced braking at the aisle end
Cold store design

Battery

Alternative battery sizes
Roll-out battery change
Swap battery cable harness

Other options available on enquiry

Features

With / without supplementary lift:

- Fixed forks welded to the operator platform, for working with walk-on pallets
- Supplementary fork lift mast on operator platform, forks welded to fork carriage. Pallet can be raised to most convenient working level for picking. Optimum matching of lift carriage and fork carriage minimizes dead space to allow full utilization of pallet surface area



Operators compartment

- Ample working space due to integration of control console in mast guide structure
- Very low platform step height for easy mounting and dismounting
- Platform is suspension-mounted and has a floor designed to absorb shock and vibration that may occur during travel, lifting and lowering motions
- Deadman's pedal comfortably flush with floor

Control Panel and Display

- Control and display panel integrated are perfectly in the drivers field of view indicating only relevant functions
- Ergonomic and easily to understand arrangement of steering knob on left, grab handle and butterfly drive switch on right
- Hydraulic functions and horn actuated by pushbuttons in grab handle bay

Steering

- Electric steering with defined centre position.
- Easy and precise manoeuvring by steering knob (optional steering wheel available)
- Steer angle monitoring ensures safe high-performance driving characteristics

Brakes

- Virtually no wear dual braking system
- Spring-load brake on drive motor as stationary safety brake
- Regenerative braking by drive motor when travelling for optimal use of energy



Battery and battery compartment

- Battery change by forklift, crane or roller track for multi-shift operation
- Battery compartments for 24 Volt batteries from 400 Ah – 620 Ah

Drive

- The powerfull and economical drive unit combines optimal performance with low energy consumption and low wear
- Latest MOSFET technology
- Rail guide rollers can be fitted for narrow aisle working

Controls

- Diagnosis and service interface allows convenient configuring and initialization via laptop computer
- Higher throughput due to individual adaption of truck parameters
- Very efficient use of energy and energy recovery
- Small spares stocking expense due to the use of standardized control components and reduced number of components altogether

Subject to modification in the interests of engineering progress. Illustrations and technical details non-binding for actual construction. All measurements subject to customary tolerances.

