



## Electric Medium-Level Order Picker 1000 kg V 10

5021-01

### Safety

The V 10 truck is designed to guarantee the operator's safety when driving, lifting and order picking. Outstanding visibility through and to either side of the mast offers the highest level of security. The integrated touch sensors ensure 2 hand operation. The LSC lift control monitors lift height and steering angle automatically reducing traction speed when necessary.

### Performance

Efficiency and high performance are the best words to describe the V 10. It is capable of picking at heights up to 6350 mm. Its powerful and economical AC drive unit combines optimum performance with low energy consumption and great reliability. Three different lift motor options allow the truck to be tailored to exactly match the application.

### Comfort

The soft suspended stand-on platform and the low cab step height increases working comfort and makes the truck as easy to use at max. height as at floor level. Wide variety of storage compartments and options such as radio preparation, fans, preparation data terminals & scanners means the truck can be equipped for every kind of order picking application.

### Reliability

Our expertise in designing and building material handling equipment is the guarantee that the V 10 is a truck you can rely on. Thanks to its easy maintenance, downtime is reduced and throughput is increased. Aspects like the central servicing make the V 10 an extremely reliable machine. The active cooling system ensures the highest availability even in extreme conditions.

### Productivity

The V 10 is designed to achieve the highest productivity possible. The powerful lift motors provide fast lift of the cab whenever needed. Based on the latest ergonomic standards, the working environment and the controls allow the operator to maximise throughput. Of course, the truck can work just as well in a wide aisle, as in a guided aisle.

Linde Material Handling

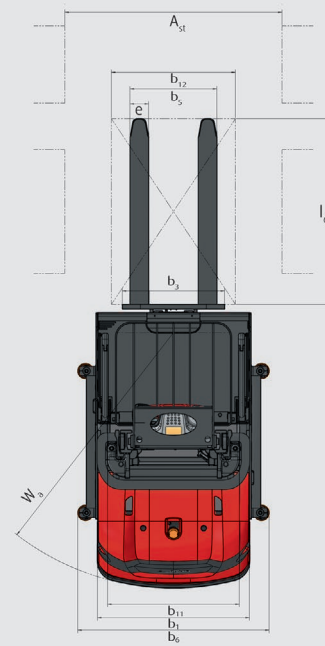
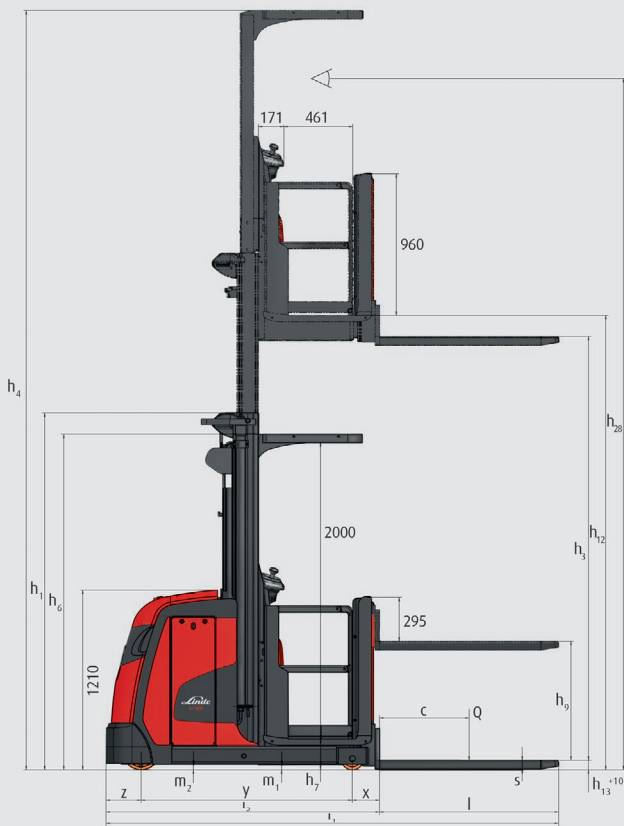
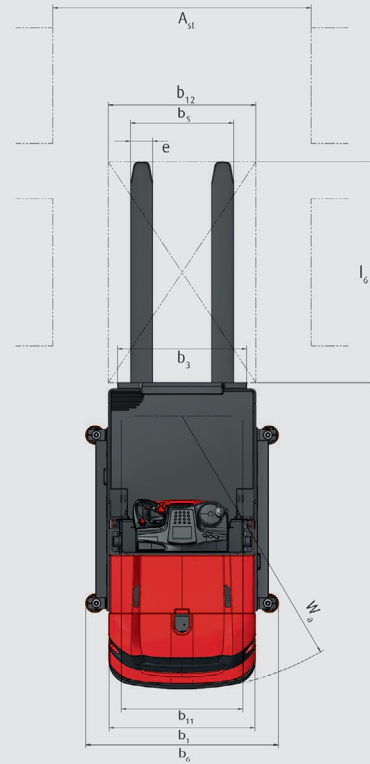
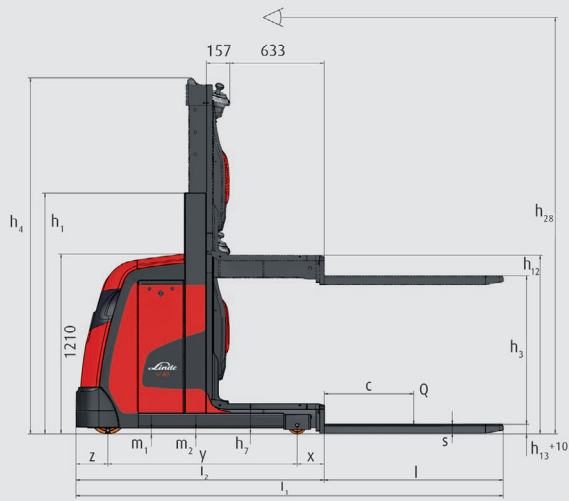
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# Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE
	1.2	Manufacturer's type designation		<b>V10 Simplex mast<sup>1)</sup></b>	<b>V10 Standard mast<sup>1)</sup></b>
	1.2a	Series		5021-01	5021-01
	1.3	Power unit		Battery	Battery
	1.4	Operation		Order Picker	Order Picker
	1.5	Load capacity/Load	Q (t)	1.0	1.0
	1.6	Load centre distance	c (mm)	400	400
	1.8	Axle centre to fork face	x (mm)	180	180
	1.9	Wheelbase	y (mm)	1270	1415
Weights	2.1	Service weight	(kg)	1754 <sup>2)</sup>	2739 <sup>2)</sup>
	2.2	Axle load with load, front/rear	(kg)	597 / 2157 <sup>2)</sup>	1142 / 2597 <sup>2)</sup>
	2.3	Axle load without load, front/rear	(kg)	1054 / 700 <sup>2)</sup>	1552 / 1187 <sup>2)</sup>
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Polyurethane	Polyurethane
	3.2	Tyre size, front		Ø 250 x 100	Ø 250 x 100
	3.3	Tyre size, rear		Ø 120 x 50	Ø 150 x 100
	3.5	Wheels, number front/rear (x = driven)		1x / 4	1x / 2
	3.6	Track width, front	b10 (mm)	0	0
	3.7	Track width, rear	b11 (mm)	660	850
	Dimensions	4.2	Height of mast, lowered	h1 (mm)	2120
4.4		Lift	h3 (mm)	1500	4550
4.5		Height of mast, extended	h4 (mm)	3760	6810
4.7		Height of overhead guard (cabin)	h6 (mm)	2260	2260
4.8		Height of seat/stand on platform	h7 (mm)	200	200
4.11		Supplementary lift	h9 (mm)	800	800
4.14		Platform height, raised	h12 (mm)	1700	4750
4.15		Height, lowered	h13 (mm)	65	65
4.19		Overall length	l1 (mm)	2465	2630
4.20		Length to fork face	l2 (mm)	1665	1830
4.21		Overall width	b1/b2 (mm)	790 / 790	980 / 980
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	60 x 120 x 800	60 x 120 x 800
4.23		Fork carriage to ISO 2328, class/type A, B		no	no
4.24		Width of fork carriage	b3 (mm)	660 / 740	660 / 740
4.25		Fork spread	b5 (mm)	560 / 640	560 / 640
4.27		Width over side guide rollers	b6 (mm)	1185	1375
4.31		Ground clearance, below mast	m1 (mm)	40	38
4.32		Ground clearance, centre of wheelbase	m2 (mm)	40	38
4.34.2		Aisle width with pallet 800 x 1200 along forks	Ast (mm)	1190	1380
4.35		Turning radius	Wa (mm)	1485	1650
4.42	End aisle width, with/without load	Au (mm)	2834	2999	
Performance	5.1	Travel speed, with/without load	(km/h)	9 / 9	10 / 10
	5.2	Lifting speed, with/without load	(m/s)	0.18 / 0.25	0.22 / 0.31
	5.3	Lowering speed, with/without load	(m/s)	0.3 / 0.24	0.3 / 0.24
	5.9	Acceleration time, with/without load	(s)	7.0 / 7.0	8.0 / 8.0
	5.10	Service brake		Regenerative	Regenerative
	Drive	6.1	Drive motor rating S2 60 min	(kW)	3
6.2		Lift motor rating at S3 15%	(kW)	4	7.6
6.3		Battery according to DIN 43531/35/36 A,B,C,no		43 535 / B	43 535 / A
6.4		Battery voltage/rated capacity (5h)	(V)/(Ah)	24 / 420	24 / 560
6.5		Battery weight (± 5%)	(kg)	385	502
8.1	Type of drive unit		Microprocessor	Microprocessor	
10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	61	69	

1) Exemplary configuration based on a modular truck system. Please contact your local sales department for an individual truck configuration

2) Figures with battery, see line 6.4/6.5.



#### V10 with simplex mast (1)

Height of mast lowered	<b>h1 (mm)</b>	1620	2120	2530
Lift height without supplementary mast	<b>h3 (mm)</b>	1000	1500	1910
Lift height with supplementary mast	<b>h3+h9 (mm)</b>	1800	2300	2710
Total lift height from ground	<b>h25 (mm)</b>	1865	2365	2775
Supplementary lift	<b>h9 (mm)</b>	800	800	800
Platform height	<b>h12 (mm)</b>	1200	1700	2110
Picking height (h12+1600mm)	<b>h28 (mm)</b>	2800	3300	3710
Extended height	<b>h4 (mm)</b>	2395	3760	4170

1.) available with 790 mm and 980 mm chassis width

#### V10 with standard mast (2)

Height of mast lowered	<b>h1 (mm)</b>	2400	2900	-
Lift height without supplementary mast	<b>h3 (mm)</b>	3550	4550	-
Lift height with supplementary mast	<b>h3+h9 (mm)</b>	4350	5350	-
Total lift height from ground	<b>h25 (mm)</b>	4415	5415	-
Supplementary lift	<b>h9 (mm)</b>	800	800	-
Platform height	<b>h12 (mm)</b>	3750	4750	-
Picking height (h12+1600mm)	<b>h28 (mm)</b>	5350	6350	-
Extended height	<b>h4 (mm)</b>	5810	6810	-

2.) available with 980 mm chassis width

# Features

## Two versions are available

- Model V 10-01 with fixed forks welded to the operator platform, for working with walk on pallets
- Model V 10-02 with supplementary lift on operator platform, forks welded to fork carriage. Pallet can be raised to most convenient working level for picking. Optimum matching of lift carriage minimizes dead space to allow full utilization of pallet surface area



## Operators compartment

- Cab is suspension-mounted and has a floor designed to absorb shock and vibration
- Lighting to illuminate racks, load and/or cab
- Storage compartments, pen holders and space for bottles, cans or tools integrated in cab lining
- Radio preparation, fans, preparation for data terminals and scanners

## Modular concept

- Unique modular design allows the perfect specification for each application
- Combination of different lift motors, chassis, masts, batteries, cabins, etc. to suit every application
- Side guide rollers can be fitted for narrow aisle working

## Drive and lift

- Robust, economical high performance traction and lift motors are fitted as standard
- Optional lift motor sizes (3 options for light, standard and heavy duty applications) allow truck performance to be matched to customer requirements

## Safety

- Two handed operation of controls via touch sensors ensures safety
- All traction and lift functions interlocked through deadman's switch and integrated 2 handed operation
- Automatic speed reduction when turning
- Emergency lowering under rear hood readily accessible in aisle



## Control concept

- Simple ergonomic controls allow precise, accurate operation reducing driver fatigue and increasing throughput
- Simultaneous traction and lifting/lowering
- Safe two handed operation ensured by integrated sensors

## LSC

- Stepless automatic adjustment of speed depending on steering angle and lift height
- Highly efficient use of energy and energy recovering

## Order Picking

- Spacious cabin for comfortable order picking
- Tilting barriers enable better reaching into the racking
- optimal height of front barrier for productive order picking
- safe stand at cabin side

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.

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