Standard Equipment/Optional Equipment

Standard Equipment

- Long tiller with low mounting point
- Fibre-glass reinforced tiller and tiller head (Grivory®)
- Exxtral® motor and battery cover
- Creep speed control (L12, L12i)
- Proportional speed control (L12, L12i)
- End-of-stroke resistance
- Storage compartments
- OptiLift® proportional lift system (L10, L12, L12i)
- Hand protection at rear of mast (polycarbonate or steel mesh)
- Multi-function display with hourmeter including scheduled maintenance, fault code and battery discharge indicator
- Key switch or LFM Go (PIN-code access)
- AC motor
- Linde LAC controller
- CAN-bus architecture
- Electromagnetic brake
- Automatic parking brake
- Cushion rubber drive wheel
- Single polyurethane load wheels
- Fork length: 1150 mm
- Width over forks: 560 mm
- Initial lift (L12i)
- Built-in or built-out fork carriage
- Protection to -10°C
- Vertical 2 PzS-B battery change (L10B, L10, L12)
- Vertical 3 PzS-B battery change (L12i)
- Horn
- Clipboard

Optional Equipment

- Drive wheels: polyurethane, wet grip, non marking cushion, treaded cushion
- Load wheels: Tandem polyurethane, tandem polyurethane greasable
- Alternative fork lengths and widths
- Load backrest
- Fleet management LFM Access and LFM Basic
- Basic Module: LFM Access control PIN
- Add-on Modules: LFM Usage Analysis, LFM Impact sensor
- Creep speed control (L10)
- Proportional speed control (L10)
- Cold store protection to -35°C
- Automatic battery watering system
- Built-in charger
- High frequency charger

Other options available on request

Electric Pallet Stackers
Capacity 1000 - 1200 kg
L10B, L10, L12, L12i

Series 1172

Linde Material Handling

Safety

The hand guards of the off-centred tiller head effectively shield hands and keep the operator safely within the truck's contours with excellent visibility through the mast. The long tiller mounted low down on the chassis ensures ample safety clearance between operator and truck.

Performance

The combination of a new AC motor and Linde LAC digital controller makes these pallet stackers highly efficient. Operating parameters can be adjusted to match any application. The OptiLift® mast control assures accurate, fully proportional lifting as well as smooth and quiet operation.

Comfort

All controls on the ergonomic tiller head can be easily operated by either hand. A Creep speed button offers utmost manoeuvrability in confined areas. Proportional speed automatically alters traction speed in relation to the truck/operator distance. Finished in tactile materials, these stackers deliver accurate load handling for better productivity.

Reliability

Despite their visual appeal, these pallet stackers are rugged and durable. The mast channels are made from high grade rolled steel sections for strength and durability. Strong and long-lasting Exxtral® motor and battery cover protect the technical compartment from outside shocks. In addition, a built-out fork carriage with thinner forks is available to protect the mast when handling gitterboxes.

Service

It is not just about the truck in operation: a maintenance-free AC motor maximises uptime reducing operating costs. All truck data is immediately and easily accessible to the service engineer via CAN-bus architecture. Fast, easy access to all internal components ensures service tasks are completed with a minimum of delay.

Features

Steering system

- Proportional speed control varies truck speed automatically in relation to the tiller angle for safe, comfortable and productive operation
- A Creep speed button ensures high manoeuvrability in confined areas when operating at low speeds with tiller in upright position
- End-of-stroke resistance on the tiller avoids accidental, abrupt braking
- Soft tiller fold-back slows down the tiller when returning into upright position, avoiding the tiller snapping on the motor cover

Lifting system

- OptiLift® mast control provides accurate, fully proportional lifting as well as smooth and quiet operation
- Soft landing of the forks protects load when lowering
- Wide range of mast options available
- Choice of standard or built-out carriage depending on application
- Initial lift on L12i ensures easy crossing of ramps and dock levellers

AC motor & Booster effect

- Powerful, smooth-running 1.2 kW AC motor (at 100% output)
- Traction speed adjustable up to 6 km/h, laden or unladen
- Booster effect provides higher torque when additional power is needed
- No roll-back on hill starts

Tiller & Tiller head

- Off-set, ergonomic Grivory® tiller head ensures safety and visibility
- Long tiller with low mounting point provides safety clearance between operator and chassis
- Wrap-around hand protection
- Comfortable controls, operable with either hand and gloves

Working station & Display

- Wide, deep storage compartment for shrink wrap, pens, markers etc.
- Durable and long lasting Exxtral® motor and battery cover
- Multi-function display as standard with hourmeter including scheduled maintenance, fault code and battery discharge indicator

Braking system

- Highly efficient electro-magnetic brake applied by moving tiller to fully up or down position
- Automatic braking on releasing traction butterfly or by reversing direction
- Truck slows before coming to a stop, remaining under total control at all times

Chassis

- Compact, rounded shape avoids snagging
- Highly resistant, robust steel construction
- Low chassis skirt protects operator's feet

Maintenance and CAN-bus architecture

- Zero maintenance, moisture and dust-proof AC motor
- CAN-bus architecture enables fast, easy access to all truck data
- Individually adjustable parameters via diagnostic plug
- Rapid and convenient access to main components via front service panel

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Linde Material Handling

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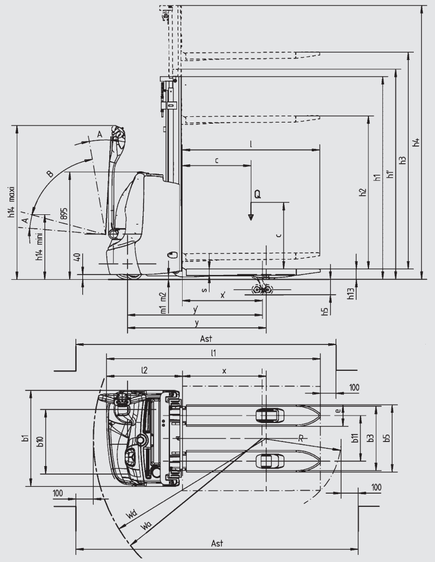
Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		**L10B**	**L10**	**L12**	**L12i**
	1.2a	Series		1172	1172	1172	1172
	1.3	Power unit		Battery	Battery	Battery	Battery
	1.4	Operation		Pedestrian	Pedestrian	Pedestrian	Pedestrian
	1.5	Load capacity	Q (t)	1.0	1.0	1.2	1.2
	1.6	Load centre	c (mm)	600	600	600	600
	1.8	Axle centre to fork face	x (mm)	711	695	695	780 / 667 [1]
	1.9	Wheelbase	y (mm)	1157	1157	1157	1362 / 1249 [1]
Weights	2.1	Service weight	(kg)	708	788	788	909
	2.2	Axle load with load, front/rear	(kg)	614 / 1094	654 / 1134	671 / 1317	707 / 1402
	2.3	Axle load without load, front/rear	(kg)	518 / 190	572 / 216	572 / 216	643 / 266
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		V+P/P [2]	V+P/P [2]	V+P/P [2]	V+P/P [2]
	3.2	Tyre size, front		Ø 230 x 75	Ø 230 x 75	Ø 230 x 75	Ø 230 x 75
	3.3	Tyre size, rear		2x Ø 85 x 100	2x Ø 85 x 100	2x Ø 85 x 100	2x Ø 85 x 100
	3.4	Auxiliary wheels (dimensions)		Ø 140 x 54	Ø 140 x 54	Ø 140 x 54	Ø 140 x 54
	3.5	Wheels, number front/rear (x = driven)		1x + 1 / 2	1x + 1 / 2	1x + 1 / 2	1x + 1 / 2
	3.6	Track width, front	b10 (mm)	518	518	518	518
	3.7	Track width, rear	b11 (mm)	380	380	380	380
Dimensions	4.2	Height of mast, lowered	h1 (mm)	2390	1940	1940	1940
	4.3	Free lift	h2 (mm)	150 [3]	1462	1462	1462
	4.4	Lift	h3 (mm)	1912 [3]	2924	2924	4386
	4.5	Height of mast, extended	h4 (mm)	2393 [3]	3402	3402	4868
	4.6	Initial lift	h5 (mm)	-	-	-	130
	4.9	Height of tiller arm in operating position, min/max	h14 (mm)	650 / 1190	650 / 1190	650 / 1190	650 / 1190
	4.15	Height, lowered	h13 (mm)	85	85	85	91
	4.19	Overall length	l1 (mm)	1772	1788	1788	1908
	4.20	Length to fork face	l2 (mm)	622	638	638	758
	4.21	Overall width	b1/b2 (mm)	800	800	800	800
	4.22	Fork dimensions	s/e/l (mm)	65 x 180 x 1150	65 x 180 x 1150	65 x 180 x 1150	65 x 180 x 1150
	4.24	Width of fork carriage	b3 (mm)	534	534	534	534
	4.25	Fork spread, min/max	b5 (mm)	560	560	560	560
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30	30	30	30
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	2326 (1949) [4] [5]	2333 (1965) [4] [5]	2305 (1937) [4] [5] [6]	2480 (2061) / 2412 (2059) [1] [4] [5] [6]
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	2292 (2149) [4] [5]	2304 (2165) [4] [5]	2276 (2137) [4] [5]	2421 (2261) / 2392 (2259) [1] [4] [5] [6]
	4.35	Turning radius	Wa (mm)	1460	1460	1432	1641 / 1526 [1] [6]
Performance	5.1	Travel speed, with/without load	(km/h)	6 / 6	6 / 6	6 / 6	6 / 6
	5.2	Lifting speed, with/without load	(m/s)	0.09 / 0.2	0.1 / 0.2	0.08 / 0.225	0.08 / 0.225
	5.3	Lowering speed, with/without load	(m/s)	0.23 / 0.23	0.35 / 0.35	0.4 / 0.3	0.4 / 0.3
	5.8	Maximum climbing ability, with/without load	(%)	5.0 / 10.0	5.0 / 10.0	5.0 / 10.0	10.0 / 15.0
	5.9	Acceleration time, with/without load	(s)	8.0 / 7.0	8.0 / 7.0	8.3 / 7.0	8.3 / 7.0
	5.10	Service brake		Electro-magnetic	Electro-magnetic	Electro-magnetic	Electro-magnetic
Drive	6.1	Drive motor, 60 minute rating	(kW)	1.2	1.2	1.2	1.2
	6.2	Lift motor, rating at S3 15%	(kW)	0.9	1	2.5	2.5
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		no	no	no	no
	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	24 / 180	24 / 180	24 / 180	24 / 225
	6.5	Battery weight (± 5%)	(kg)	195	195	195	200
	6.6	Power consumption according to VDI cycle	(kWh/h)	0.7	0.8	1	1
Others	8.1	Type of drive control		LAC	LAC	LAC	LAC
	8.4	Noise level at operator's ear	(dB(A))	65	65	65	65

1) Without/with Initial lift
2) Solid rubber + polyurethane / polyurethane
3) Mast available 1462E, 1912E and 2424S only.
4) Calculated with VDI 2198 (VDI 3597)
5) Including a 200 mm (min.) operating aisle clearance.
6) With creep speed = tiller in vertical position



$$Ast = Wa + \sqrt{(l6 - x)^2 + \left(\frac{b12}{2}\right)^2} + a$$

Ast = Wa + R + a
Safety clearance a = 200 mm

Masts (L10/L12) (in mm)		**1462 E**	**1912 E**	**2024 S**	**2424 S**	**2924 S**	**3324 S**	**3824 S**	**4224 S**
Lift	**h3**	1462	1912	2024	2424	2924	3324	3824	4224
Lift + fork height	**h3+h13***	1547	1997	2109	2509	3009	4309	3909	4309
Height lowered	**h1***	1940	2390	1490	1690	1940	2140	2390	2590
Height raised	**h4**	1943	2393	2502	2902	3402	3802	4302	4702
Free lift	**h2**	1462	1912	150	150	150	150	150	150

Masts (L10/L12) (in mm)		**2024 D**	**2424 D**	**2924 D**	**3324 D**	**3824 D**	**4224 D**	**3636 T**	**4386 T**
Lift	**h3**	2024	2424	2924	3324	3824	4224	3636	4386
Lift + fork height	**h3+h13***	2109	2509	3009	3409	3909	3409	3721	4471
Height lowered	**h1***	1490	1690	1940	2140	2390	2590	1690	1940
Height raised	**h4**	2502	2902	3402	3802	4302	4702	4118	4868
Free lift	**h2**	1012	1212	1462	1662	1912	2112	1212	1462

* initial Lift h5 = 130 mm
E=Simplex mast, S=Standard mast, D=Duplex mast, T=Triplex mast