

Standard Equipment/Optional Equipment

Standard Equipment

Sinergo®, the operator / truck interface
 Long tiller with low mounting point and off-set head made out of Grivory®
 Exxtral® motor and battery cover
 Creep speed control (L12 AS)
 Proportional speed control (L12 AS)
 End-of-stroke resistance
 Storage compartments
 OptiLift® proportional lift system
 Hand protection at rear of mast (polycarbonate or steel mesh)
 Multifunction display with hourmeter, maintenance indication, battery discharge indicator and internal fault code indication
 Key switch or LFM Go (PIN-code access)
 Adjustable load arms 900 / 1200 / 1350 mm

AC motor
 Linde LAC controller
 CAN-bus architecture
 Electromagnetic brake
 Automatic parking brake
 Cushion rubber drive wheel
 Single polyurethane load wheels
 Fork carriage ISO 2B 800 mm
 Built-in or built-out carriage
 Protection to -10°C
 Vertical 2PzS BS battery change
 Horn
 Clipboard

Optional Equipment

Drive wheels: polyurethane, wet grip, non marking cushion, treaded cushion
 Load wheels: Tandem polyurethane
 Alternative fork carriages ISO 2B
 Alternative ISO forks lengths (80 x 40 mm)
 Fleet management, Basic Modules: LFM Access Control PIN
 Fleet management, Add-on Modules: LFM Usage Analysis, LFM Impact sensor

Creep speed control (L10 AS)
 Proportional speed control (L10 AS)
 Cold store protection to -35°C
 Automatic battery watering system
 Built-in charger
 High frequency charger
 Other options available on request



Electric Straddle Stacker Capacity 1000 - 1200 kg L10 AS, L12 AS

Series 1172

Safety

Sinergo® interface is implemented on Linde pedestrian pallet stackers. 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 control makes these pallet stackers highly efficient. Operating parameters can be adjusted to match any application. Straddle legs width is adjustable for more flexibility in the warehouse. The OptiLift® mast control provides fully proportional lifting and assures quiet smooth operation.

Comfort

Through Sinergo®, all controls on the tiller 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, long-lasting, with memory effect, Exxtral® motor and battery cover protect the technical compartment from outside shocks.

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 the 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 the tiller in the 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

AC motor & Booster effect

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



Braking system

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



Lifting system

- OptiLift® mast control provides accurate, fully proportional lifting as well as smooth, quiet operation
- Soft landing of the forks protects load when lowering

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



Chassis

- Compact, rounded shape avoids snagging
- Highly resistant, robust steel construction
- Low chassis skirt protects operator's feet
- Straddle legs can be adjusted at 900, 1200, 1350 mm

Working station & Display

- Wide, deep storage compartment for shrink wrap, pens, markers etc.
- Strong Exxtral® motor and battery cover last the lifetime of the truck
- Multifunctional display as standard with hourmeter, maintenance indication, battery discharge indicator, fault code indication



Maintenance/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

Linde Material Handling *Linde*



Linde Material Handling GmbH, Postfach 10 01 36, 63701 Aschaffenburg, Germany,
 Phone + 49.6021.99-0, Fax + 49.6021.99-1570, www.linde-mh.com, info@linde-mh.com

Subject to modification in the interests of progress. Illustrations and technical details not binding for actual constructions. All dimensions subject to usual tolerances.

091.e.2.0710.indx.ki

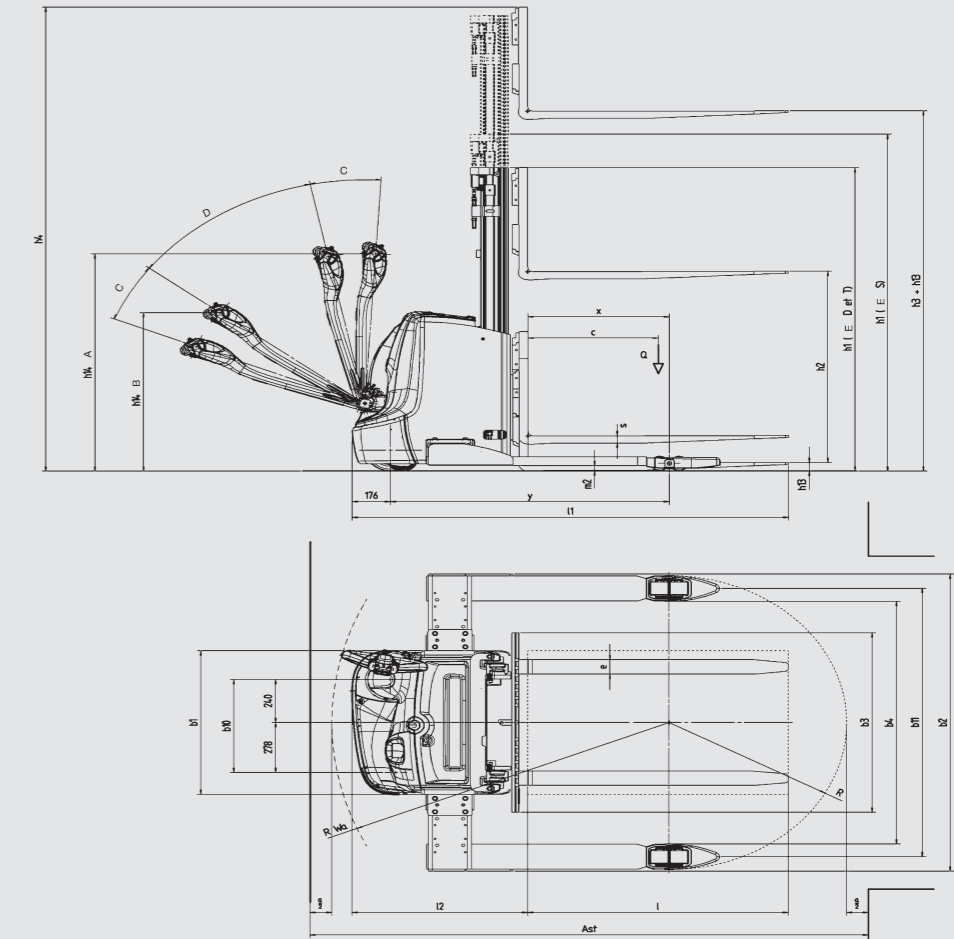
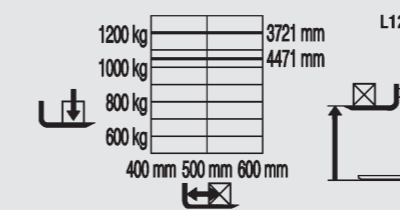
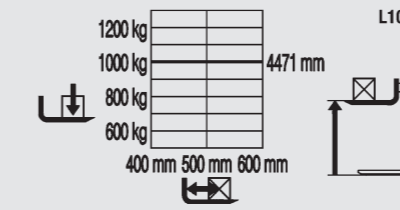
Technical Data according to VDI 2198

		LINDE	LINDE	LINDE	LINDE	
Characteristics	1.1 Manufacturer	LINDE	LINDE	LINDE	LINDE	
	1.2 Model designation	L10AS 75x70	L10AS 120x50	L12AS 75x70	L12AS 120x50	
	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)	650	650	650	650
	1.9 Wheelbase	y (mm)	1284	1284	1284	1284
	Wheels / Tyres	3.1 Tyres rubber, SE, pneumatic, polyurethane	V+P/P ¹⁾	V+P/P ¹⁾	V+P/P ¹⁾	V+P/P ¹⁾
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		4x Ø 85 x 50	2x Ø 85 x 100	4x Ø 85 x 50	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)	1275	1044 / 1344 / 1494	1275	1044 / 1344 / 1494
Dimensions	4.9 Height of tiller arm in operating position, min/max	h14 (mm)	650 / 1190	650 / 1190	650 / 1190	650 / 1190
	4.15 fork height, lowered	h13 (mm)	48	48	48	48
	4.19 Overall length	l1 (mm)	2010	2010	2010	2010
	4.20 Length to fork face	l2 (mm)	810	810	810	810
	4.21 Overall width	b1/b2 (mm)	800 / 1370	800 / 1204-1504-1654	800 / 1370	800 / 1204-1504-1654
	4.22 Fork dimensions	s/e/l (mm)	40 x 80 x 900-1000-1200	40 x 80 x 900-1000-1200	40 x 80 x 900-1000-1200	40 x 80 x 900-1000-1200
	4.23 Fork carriage to ISO 2328, class/type A, B		2B	2B	2B	2B
	4.24 Width of fork carriage	b3 (mm)	800 / 1000 / 1100	800 / 1000 / 1100	800 / 1000 / 1100	800 / 1000 / 1100
	4.26 Width between reach legs	b4 (mm)	1200	900 / 1200 / 1350	1200	900 / 1200 / 1350
	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)	2449 ²⁾	2449 / 2498 / 2573 ²⁾	2449 ²⁾	2449 / 2498 / 2573 ²⁾
	4.34 Aisle width with pallet 800 x 1200 along forks	Ast (mm)	2434 ²⁾	2434 / 2498 / 2573 ²⁾	2434 ²⁾	2434 / 2498 / 2573 ²⁾
	4.35 Turning radius	Wa (mm)	1554	1554	1554	1554
Performance	5.1 Travel speed, with/without load	(km/h)	5.9 / 6	5.9 / 6	5.8 / 6	5.8 / 6
	5.2 Lifting speed, with/without load	(m/s)	0.1 / 0.21	0.1 / 0.21	0.12 / 0.26	0.12 / 0.26
	5.3 Lowering speed, with/without load	(m/s)	0.35 / 0.3	0.35 / 0.3	0.35 / 0.3	0.35 / 0.3
	5.8 Maximum climbing ability, with/without load	(%)	5.0 / 10.0	5.0 / 10.0	5.0 / 10.0	5.0 / 10.0
	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)	1	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 / 225	24 / 250	24 / 225	24 / 250
	6.5 Battery weight (± 5%)	(kg)	200	200	200	200
	6.6 Power consumption according to VDI cycle	(kWh/h)	1,1875	1,25	1,4375	1,5
Others	8.1 Type of drive control	LAC	LAC	LAC	LAC	

1) Solid rubber + polyurethane / polyurethane

2) Including a 200 mm (min.) operating aisle clearance.

Load Capacity Diagrams



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	4309	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 = 130mm