

Standard Equipment/Optional Equipment

Standard Equipment

Electronic control on traction and lifting

Proportional lifting & lowering

Initial lift (L20i), can be used with forks up to h3 < 1800 mm

Drive wheel polyurethane

Tandem load wheels polyurethane

Reduced travelling speed with lifted load

Side battery change (L20), can be used as a vertical battery change

Vertical battery change (L20i)

Antis hearing mesh

Hourmeter

Battery discharge indicator

Lift lock system when battery is at low charge

Preparation for side battery change (L20)

Optional Equipment

Wide mast range from Standard, Duplex and Triplex

Wide fork range from 900 mm to 1600 mm

Creep Speed

Extra technical documentation

On-board charger

Battery charger plug (when built-in charger not ordered)

Load backrest (h= 850 mm)

Single battery change for battery changing (L20)

Cold store version

Other options available on request



Electric Pallet Stackers Capacity 2000 kg L20, L20i

Series 4525 & 4528

Safety

The L20 enables 2000 kg load capacity with no compromise on safety. The long and low mounted tiller reduces the risk of foot injuries thanks to a safe operator-chassis distance. Automatic braking when releasing the butterflies and electromagnetic emergency brake complete the overall safety concept.

Performance

Designed with 4 point ground contact configuration, this stacker provides good stability and good residual capacity while staking and retrieval. Lifting and lowering are powered with a 3 kW lift motor, controlled from the tiller head operating a proportional valve. The L20i, equipped with initial lift, can be used on ramps and uneven surfaces.

Comfort

The ergonomic tiller head gathers all functions for optimal driving conditions. The lightness and easy handling of the tiller reduces operator fatigue. When released, it automatically returns to vertical position without bumping or bouncing on the technical cover. The castor wheel can be easily adjusted to provide excellent grip and stability.

Reliability

The most dependable and tested technologies guarantee the high degree of reliability and productivity of this stacker even in the most difficult operating conditions. The one piece tiller is manufactured from very light but sturdy material to suit perfectly heavy duties warehouse applications.

Service

The L20 has been designed to maintain a very high level of productivity by making maintenance easier. Swift and easy access to all components. The electrical systems and wiring are protected to IP class 54; it reduces the susceptibility to humidity and dust and increases the reliability of components and cables.

Features

Chassis & Mast

- Rounded contours, no sharp edges
- Low Chassis skirt for operator safety
- Rigid clear view mast optimizes visibility
- Wide choice of masts
- Speed reduction at high lift for operator and load safety

Lifting system

- L20i: Initial lift of load arms increases ground clearance to negotiate easily ramps, dock levellers and bridging plates
- Proportional lifting and lowering operated from the tiller head
- Wide range of mast available



Display & Energy

- Hourmeter, which also indicates abnormal operation
- Battery discharge indicator
- Lift lock when the battery is at low charge for longer life time



Braking system

- Automatic braking on releasing the traction butterfly, by reversing direction and by moving tiller to fully up or down position
- Efficient electromagnetic parking brake



Chassis

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

Tiller & Tiller head

- Long tiller ensures operator is well away from the chassis when working
- All traction and lift function are integrated into the tiller and can be operated with either hand and gloves
- When released, the tiller returns softly in upright position avoiding bouncing on the motor cover

Working station

- The motor compartment is made of polyethylene material, flexible and strong
- The battery cover uses the same material with ample storage space as well as a large clipboard for documents



Maintenance

- Rapid and convenient access to main components via front service panel
- Electrical system and wiring are protected to IP 54, ensuring greater reliability over time

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

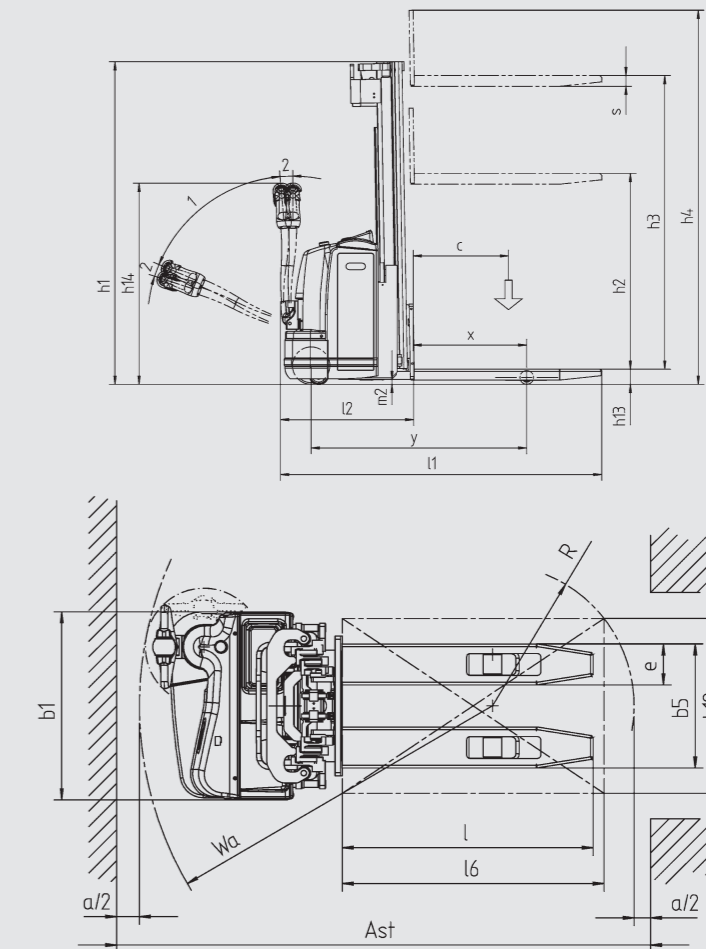
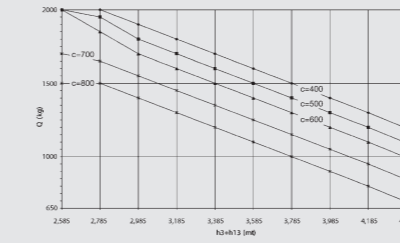
Technical Data according to VDI 2198

Category	Item	Unit	L20	L20i		
Characteristics	1.1	Manufacturer	LINDE	LINDE		
	1.2	Model designation	L20	L20i		
	1.3	Power unit	Battery	Battery		
	1.4	Operation	Pedestrian	Pedestrian		
	1.5	Load capacity	Q (t)	2.0		
	1.6	Load centre	c (mm)	600		
	1.8	Axle centre to fork face	x (mm)	706 (686) ¹⁾	637 (607) ¹⁾	
	1.9	Wheelbase	y (mm)	1323	1359 ²⁾	
	Weights	2.1	Service weight	(kg)	1305 ³⁾	1039 ³⁾
2.2		Axle load with load, front/rear	(kg)	1054 / 2251 ³⁾	958 / 2369 ³⁾	
2.3		Axle load without load, front/rear	(kg)	894 / 411 ³⁾	904 / 423 ³⁾	
3.1		Tyres rubber, SE, pneumatic, polyurethane		V+P/P ⁴⁾	V+P/P ⁴⁾	
3.2		Tyre size, front		Ø 230 x 120	Ø 230 x 120	
Wheels/Tyres	3.3	Tyre size, rear		Ø 85 x 70	Ø 85 x 70	
	3.5	Wheels, number front/rear (x = driven)		1x + 1 / 4	1x + 1 / 4	
	3.6	Track width, front	b10 (mm)	574	574	
	3.7	Track width, rear	b11 (mm)	380	380	
	4.3	Free lift	h2 (mm)	90	90	
	4.4	Lift	h3 (mm)	3580	3580	
	4.5	Height of mast, extended	h4 (mm)	4088	4092	
Dimensions	4.9	Height of tiller arm in operating position, min/max	h14 (mm)	762 / 1232	762 / 1232	
	4.15	fork height, lowered	h13 (mm)	86	91	
	4.19	Overall length	l1 (mm)	1956 ³⁾	2053 ³⁾	
	4.20	Length to fork face	l2 (mm)	794 ³⁾	903 ³⁾	
	4.21	Overall width	b1/b2 (mm)	860	860	
	4.22	Fork dimensions	s/e/l (mm)	61 x 200 x 1150	61 x 200 x 1150	
	4.24	Width of fork carriage	b3 (mm)	680	680	
	4.25	Fork spread, min/max	b5 (mm)	570	570	
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30	25 (160) ³⁾	
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	2487 (2113) ^{4) 7)}	2556 (2218) ^{4) 7)}	
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	2455 (2313) ^{4) 7)}	2546 (2418) ^{4) 7)}	
	4.35	Turning radius	Wa (mm)	1619	1655	
	Performance	5.1	Travel speed, with/without load	(km/h)	5 / 6	5 / 6
		5.2	Lifting speed, with/without load	(m/s)	0.1 / 0.17	0.1 / 0.17
		5.3	Lowering speed, with/without load	(m/s)	0.3 / 0.23	0.3 / 0.23
5.8		Maximum climbing ability, with/without load	(%)	2.4 / 9.1	2.4 / 10.6	
5.10		Service brake		electric/mechanic	electric/mechanic	
Drive		6.1	Drive motor, 60 minute rating	(kW)	1	1
	6.2	Lift motor rating at S3 15%	(kW)	3	3	
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		43 535 / B	43 535 / B	
	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	24 / 315	24 / 375	
	6.5	Battery weight (± 5%)	(kg)	295	288	
Others	8.1	Type of drive control		Electronic/stepless	Electronic/stepless	
	8.4	Noise level at operator's ear	(dB(A))	< 70.0	< 70.0	

1) Figures in parenthesis refer to triplex masts
 2) [with initial lift]
 3) Figures with battery, see line 6.4/6.5.
 4) Solid rubber + polyurethane / polyurethane

5) Figures in parenthesis with initial lift
 6) Calculated with the VDI 2198 (VDI 3597)
 7) Including a 200 mm (min.) operating aisle clearance.

Load Capacity Diagrams



L20/L20i										
h3+h13 (m)	2585	2785	2985	3185	3385	3585	3785	3985	4185	4465
c=400 (mm)	2000	2000	1900	1800	1700	1600	1500	1400	1300	1150
c=500 (mm)	2000	1950	1800	1700	1600	1500	1400	1300	1200	1050
c=600 (mm)	2000	1850	1700	1600	1500	1400	1300	1200	1100	950
c=700 (mm)	1700	1650	1550	1450	1350	1250	1150	1050	950	800
c=800 (mm)	1500	1500	1400	1300	1200	1100	1000	900	800	650