Standard Equipment/Optional Equipment

Standard Equipment

Linde twin drive pedals to control forward/reverse travel and braking
Original Linde Load Control integrated in armrest
Hydraulic suspended seat with extensive range of adjustment
Hydrostatic power steering
Four wheel configuration with patented Linde combi steering axle
Linde compact drive axle with maintanance free oil-bath disc brake
Famous Linde dual motor drive with 2 x 5 kW maintenance free AC motors
11 kW maintenance free AC lift motor
Curve Assist for automatic, proportional speed adaption
Plenty of storage space for writing utensils, beverage cans ...
Anti-glare display with clock, hour meter, service information and accurate battery condition indicator
Standard truck fits into ISO containers
Superelastic tyres

Battery capacity for low version (h6 = 1970 mm):
E16P = 48 V/575 Ah, E20PL = 48 V/690 Ah
Battery capacity for high version with increased battery capacity (h6 = 2130 mm):
E16PH = 48 V/700 Ah, E18PH = 48 V/700 Ah
E20PH = 48 V/700 Ah, E20PHL = 48 V/840 Ah

New STANDARD features for the EVO models:
New seat/armrest generation for outstanding ergonomics
Improved energy consumption
Enhanced tractive force and climbing ability
Self-activating parking brake
Individual drive dynamic mode providing perfect combination of performance and efficiency
Showing battery operating time by the minute
Dust and dirt protected Linde Load Control
Enlarged step-in for high models
New diagnostic plug for fast service access
Sensitive traction control for Linde dual motor drive

Optional Equipment

Single drive pedal with direction selector on armrest
Overhead guard can be upgrated to full cabin with roof, front-, rear screens and doors (also available with tinted glass)
Wiper-washers for front, rear and roof screens
Further seats with additional comfort and adjustments
Cab heater with integrated pollen filter
Radio with speakers
Sun screen, clipboard and interior light
Standard mast lifts up to 5650 mm
Duplex mast (full free lift) lifts up to 4145 mm
Triplex mast (full free lift) lifts up to 6075 mm
Single or double additional hydraulics for all mast types
Tilt cylinder- and roof protection
Integrated sideshift
Integrated fork positioner
Mirrors

Linde original Blue Spot
Road traffic specification
Load backrest
Swivelseat
12 V socket
Truck lighting, working lamps
Cold store protection
Custom paintwork
Linde Fleet Management (LFM)
Active ventilation while charging

Linde energy management
Customized horizontal and vertical battery change incl. NEW hydraulic battery shift
Built-in high frequency onboard charger for convenience and flexibility
Recirculation of electrolyte

Other options available on request

Electric Counterbalanced Trucks
Capacity 1600 - 2000 kg
E16 EVO®, E18 EVO®, E20 EVO®

386_02

Safety
The protective overhead guard forms a strong and completely enclosed protective zone providing optimum structural integrity, safety and protection for the operator. The top mounted tilt cylinders provide seamless, smooth control of the tilt movements for excellent load stability in all operating conditions. This unique design also enables slimmer mast profiles to be fitted for outstanding visibility.

Performance
One would expect a high performance truck to have a high performance traction system – and that is exactly what the Linde compact drive axle and lift system delivers. Powerful motors and intelligent electronic control form an impressive power pack to deliver the highest levels of productivity.

Comfort
Consistently high levels of performance and efficiency for extended periods are only possible if the operator feels comfortable. The ergonomic layout of all the controls, the adjustability of the armrest and seat, Linde Load Control and twin accelerator pedals provide the best possible intuitive interface between the truck and the operator.

Linde Material Handling

Reliability
An electric fork lift truck depends on reliable electronic systems. The Linde electronic control system provides a high level of reliability because of its dual circuit monitoring system and the sealed aluminium housing which provides total protection for the electronics from the ingress of dust and moisture.

Productivity
Effective in operation, efficient in reducing costs: the unique Linde energy management system ensures intelligent and economical consumption of energy. Energy can also be obtained quickly utilising the optional built-in charging unit or one of the five simple and rapid battery changing methods. The result: more uptime and increased productivity.

Features

Linde clearview mast design
- With top mounted tilt cylinders for seamless load control and stability
- Excellent view of load and surroundings through the robust yet slim mast profiles
- Nominal capacity retained to maximum lift heights
- High residual capacities in all applications
- Exceptionally stable

Linde combi axle
- Unique Linde combi axle offers total flexibility
- Combi axle gives this four wheeled truck the manoeuvrability of a three wheeler
- Excellent four wheeled stability and safety on hard uneven surfaces
- The perfect flexible combination for inside/outside working

Linde twin accelerator control
- Seamless, rapid reversing without repositioning the feet
- Short pedal travel
- Fatigue-free working
- Increased throughput and performance

Linde Load Control
- Small tactile joystick integrated in an adjustable armrest
- Precise and effortless fingertip joystick control of all mast functions
- Safe and highly efficient load handling

Linde Dual Motor Drive
- Two powerful AC drive motors
- Seamless acceleration and variable torque characteristics
- Power moduls in DCB-technology for high performance and efficiency cooling

Linde operator's compartment
- Ergonomically designed for efficient, fatigue-free working
- Spacious operator's compartment with generous floor plate area
- Cushioned comfort – mast and drive axle are isolated from the chassis and cab by a unique resilient suspension system that absorbs shock loadings

Linde compact drive axle
- Twin drive design with high performance Linde AC technology
- Integrated AC lift motor
- Optimum energy efficiency
- Maintenance-free oil-bath disc brake
- Efficient power moduls housed in sealed unit for complete protection
- Short, energy saving power connections

Linde energy management
- Optimised energy consumption
- Accurate battery condition indicator
- Simple horizontal or vertical battery changing options
- Optional built-in high frequency charger for convenience and flexibility
- Record of battery usage

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Linde Material Handling

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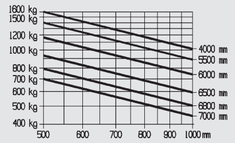
Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		**E16P (575Ah)**	**E16PH (700Ah)**	**E18PH (700Ah)**	**E20PL (690Ah)**	**E20PH (700Ah)**	**E20PHL (840Ah)**
	1.2a	Series		386-02	386-02	386-02	386-02	386-02	386-02
	1.3	Power unit		Battery	Battery	Battery	Battery	Battery	Battery
	1.4	Operation		Seat	Seat	Seat	Seat	Seat	Seat
	1.5	Load capacity	Q (t)	1.6	1.6	1.8	2.0	2.0	2.0
	1.6	Load centre	c (mm)	500	500	500	500	500	500
	1.8	Axle centre to fork face	x (mm)	365	365	370	374	374	374
	1.9	Wheelbase	y (mm)	1429 [1]	1481 [1]	1481 [1]	1537 [1]	1481 [1]	1589 [1]
Weights	2.1	Service weight	(kg)	3015 [2]	3360 [2]	3385 [2]	3360 [2]	3520 [2]	3600 [2]
	2.2	Axle load with load, front/rear	(kg)	4094 / 521	4205 / 755	4562 / 623	4787 / 573	4885 / 635	4905 / 695
	2.3	Axle load without load, front/rear	(kg)	1525 / 1490 [2]	1670 / 1690 [2]	1705 / 1680 [2]	1650 / 1710 [2]	1705 / 1815 [2]	1805 / 1795 [2]
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		SE	SE	SE	SE	SE	SE
	3.2	Tyre size, front		180/70-8 (18x7-8)	180/70-8 (18x7-8)	200/50-10	200/50-10	200/50-10	200/50-10
	3.3	Tyre size, rear		16x6-8	16x6-8	16x6-8	16x6-8	16x6-8	16x6-8
	3.5	Wheels, number front/rear (x = driven)		2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
	3.6	Track width, front	b10 (mm)	930	930	965	965	965	965
	3.7	Track width, rear	b11 (mm)	807	807	807	807	807	807
Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	5.0 / 7.0	5.0 / 7.0	5.0 / 7.0	5.0 / 7.0	5.0 / 7.0	5.0 / 7.0
	4.2	Height of mast, lowered	h1 (mm)	2019	2194	2194	2019	2194	2194
	4.3	Free lift	h2 (mm)	150	150	150	150	150	150
	4.4	Lift	h3 (mm)	2800	3150	3150	2800	3150	3150
	4.5	Height of mast, extended	h4 (mm)	3401	3751	3751	3401	3751	3751
	4.7	Height of overhead guard (cabin)	h6 (mm)	1970	2130	2130	1970	2130	2130
	4.8	Height of seat/stand on platform	h7 (mm)	908	1065	1065	908	1065	1065
	4.12	Towing coupling height	h10 (mm)	538	602	602	538	602	602
	4.19	Overall length	l1 (mm)	2929	2978	2983	3045	2987	3095
	4.20	Length to fork face	l2 (mm)	2029	2078	2083	2145	2087	2195
	4.21	Overall width	b1/b2 (mm)	1090 / 1050	1090 / 1050	1172 / 1050	1172 / 1050	1172 / 1050	1172 / 1050
	4.22	Fork dimensions	s/e/l (mm)	40 x 80 x 900	40 x 80 x 900	45 x 100 x 900	45 x 100 x 900	45 x 100 x 900	45 x 100 x 900
	4.23	Fork carriage to ISO 2328, class/type A, B		2A	2A	2A	2A	2A	2A
	4.24	Width of fork carriage	b3 (mm)	980	980	980	980	980	980
	4.31	Ground clearance, below mast	m1 (mm)	97	97	97	97	97	97
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	103	103	103	103	103	103
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	3355 [3]	3404 [3]	3409 [3]	3470 [3]	3412 [3]	3520 [3]
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	3479 [3]	3528 [3]	3533 [3]	3595 [3]	3537 [3]	3645 [3]
	4.35	Turning radius	Wa (mm)	1664	1713	1713	1771	1713	1821
	4.36	Minimum pivoting point distance	b13 (mm)	0	0	0	0	0	0
Performance	5.1	Travel speed, with/without load	(km/h)	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20
	5.2	Lifting speed, with/without load	(m/s)	0.5 / 0.6	0.5 / 0.6	0.5 / 0.6	0.5 / 0.6	0.5 / 0.6	0.5 / 0.6
	5.3	Lowering speed, with/without load	(m/s)	0.58 / 0.5	0.58 / 0.5	0.58 / 0.5	0.58 / 0.5	0.58 / 0.5	0.58 / 0.5
	5.5	Tractive force, with/without load	(N)	2300 / 2300	2300 / 2300	2300 / 2300	2300 / 2300	2300 / 2300	2300 / 2300
	5.6	Maximum tractive force, with/without load	(N)	11000 / 11000	11000 / 11000	11000 / 11000	11000 / 11000	11000 / 11000	11000 / 11000
	5.7	Climbing ability, with/without load	(%)	6.8 / 10.4	6.6 / 9.9	6.1 / 9.4	5.8 / 9.2	5.7 / 8.9	5.7 / 8.9
	5.8	Maximum climbing ability, with/without load	(%)	25.0 / 40.1	23.2 / 35.4	22.2 / 35.1	21.4 / 35.4	20.7 / 33.6	20.4 / 32.8
	5.9	Acceleration time, with/without load	(s)	4.5 / 3.8	4.5 / 3.8	4.5 / 3.8	4.5 / 3.8	4.5 / 3.8	4.5 / 3.8
	5.10	Service brake		hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.
Drive	6.1	Drive motor, 60 minute rating	(kW)	2x 5	2x 5	2x 5	2x 5	2x 5	2x 5
	6.2	Lift motor, rating at S3 15%	(kW)	11	11	11	11	11	11
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		43 531 / A	43 531 / A	43 531 / A	43 531 / A	43 531 / A	43 531 / A
	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	48 / 575/625	48 / 700/775	48 / 700/775	48 / 690/750	48 / 700/775	48 / 840/930
	6.5	Battery weight (± 5%)	(kg)	856	1118	1118	1013	1118	1309
	6.6	Power consumption according to VDI cycle	(kWh/h)	4.9	5.1	5.3	5.4	5.6	5.6
Others	8.1	Type of drive control		Digital/stepless	Digital/stepless	Digital/stepless	Digital/stepless	Digital/stepless	Digital/stepless
	8.2	Operating pressure for attachments	(bar)	170	170	170	170	170	170
	8.3	Oil flow for attachments	(l/min)	32	32	32	32	32	32
	8.4	Noise level at operator's ear	(dB(A))	< 65	< 65	< 65	< 65	< 65	< 65

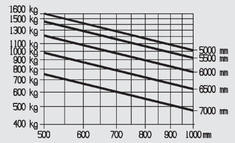
1) Mast in vertical position
2) Figures with battery, see line 6.4/6.5.
3) Including a 200 mm (min.) operating aisle clearance.

Lifting capacity diagrams

E16P



E16PH



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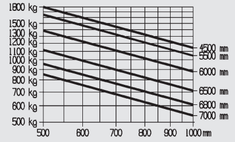
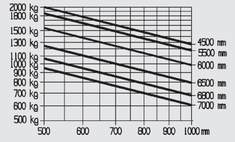
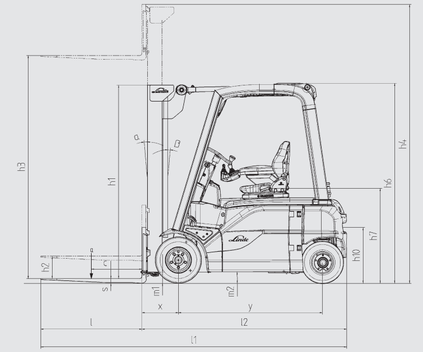
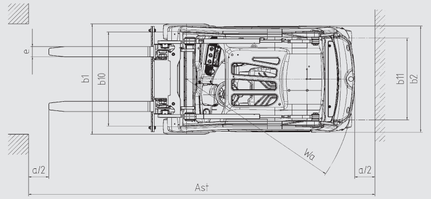


E20PL/E20PH/E20PHL







Standard mast (in mm)		E16P/E20PL			E16PH/E18PH/E20PH/E20PHL		
Lift	**h3**	2800	3150	4250	3150	4250	5650
Overall height, retracted (to 150mm free lift)	**h1**	2021	2196	2746	2196	2746	3446
Overall height extended	**h4**	3363	3713	4813	3713	4813	6251

Duplex mast (in mm)		E16P/E20PL			E16PH/E18PH/E20PH/E20PHL		
Lift	**h3**	2795	3145	3845	3145	3845	4145
Overall height, retracted	**h1**	1946	2121	2471	2121	2471	2671
Overall height, extended	**h4**	3377	3727	4427	3727	4427	4745
Special free lift	**h2**	1343	1518	1868	1518	1868	2069

Triplex mast (in mm)		E16P/E20PL			E16PH/E18PH/E20PH/E20PHL		
Lift	**h3**	4100	4625	5475	4625	5475	6075
Overall height, retracted	**h1**	1946	2121	2471	2121	2471	2671
Overall height, extended	**h4**	4702	5227	6077	5227	6077	7075
Special free lift	**h2**	1344	1519	1781	1519	1781	2069

Other lift heights on request
Minimum lift height does not apply to tall vehicle