Standard Equipment/Optional Equipment

Standard Equipment

Linde twin drive pedals to control forward/reverser travel

Original Linde Load Control integrated in armrest Hydraulic suspended seat with extensive range of adjustment capacity (h6 = 2130 mm): Hydrostatic power steering

Three wheel configuration with original Linde center-pivot axle for excellent manoeuvrability

Linde compact drive axle with maintanance free oil-bath disc brake

Famous Linde dual motor drive with 2 x 4,6 kW for 48 V models and 2 x 3,5 kW for the 24 V models

11 kW (48 V) maintanance free AC lift motor, 10 kW for 24 V Self-activating parking brake

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 container

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 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 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



Electric Counterbalanced Trucks Capacity 1600 - 2000 kg E16 EVO®, E18 EVO®, E20 EVO® Series 386_02

Optional Equipment

Superelastic tyres

Single drive pedal with direction selector on armrest Overhead guard can be upgrated to full cabin with roof, front-, Road traffic specification 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 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

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 the armrest and seat, Linde Load Control, and twin accelerator pedals provide the best possible intuitive interface between the truck and the operator.

Reliability

Linde Material Handling

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
- → High residual capacities in all applications
- → Exceptionally stable



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

Linde hydrostatic power steering

→ Linde close coupled steer axle for

outstanding manoeuvrability

operator

steering wheel

→ Less tyre stress

→ Power moduls in DCB-technology for high performance and efficiency coolina



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

changing options

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

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

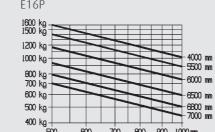


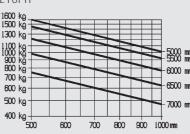
Technical Data according to VDI 2198

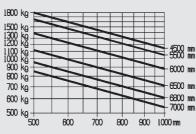
	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		E16P (575Ah)	E16PH (700Ah)	E18PH (700Ah)	E20PL (690Ah)	E20PH (700Ah)	E20PHL (840Ah)
CS	1.2a	Series		386-02	386-02	386-02	386-02	386-02	386-02
risti	1.3	Power unit		Battery	Battery	Battery	Battery	Battery	Battery
acte	1.4	Operation		Seat	Seat	Seat	Seat	Seat	Seat
Characteristics	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)	14291)	1481 1)	14811)	1537 ¹⁾	1481 1)	1589 ¹)
ıts	2.1	Service weight	(kg)	3015 ²⁾	3360 ²⁾	3385 ²⁾	3360 2)	3520 ²⁾	3600 ²⁾
Weights	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⁾
	3.1	Tyres rubber, SE, pneumatic, polyurethane		SE	SE	SE	SE	SE	SE
yres	3.2	Tyre size, front		180/70-8 (18x7-8)	180/70-8 (18x7-8)	200/50-10-SC15	200/50-10-SC15	200/50-10-SC15	200/50-10-SC15
⇇	3.3	Tyre size, rear		16x6-8-SC15	16x6-8-SC15	16x6-8-SC15	16x6-8-SC15	16x6-8-SC15	16x6-8-SC15
eels,	3.5	Wheels, number front/rear (x = driven)		2x / 2					
Ř	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
	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
	4.12	Overall length		2929	2978	2983	3045	2987	3095
nsions	4.20	Length to fork face	12 (mm)	2029	2078	2083	2145	2087	2195
lens	4.21	Overall width	b1/b2 (mm)	1090 / 1050	1090 / 1050	1172 / 1050	1172 / 1050	1172 / 1050	1172 / 1050
Dime	4.22	Fork dimensions	s/e/I (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	3/ 6/1 (11111)	2A	2A	2A	2A	2A	2A
	4.23	Width of fork carriage	h2 (mm)	980	980	980	980	980	980
		Ground clearance, below mast	b3 (mm)	980	980	97	97	97	980
	4.31	· · · · · · · · · · · · · · · · · · ·	m1 (mm)						
	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)	34043)	34093)	3470 3)	3412 3)	3520 ³⁾
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	3479 3)	35283)	35333)	3595³)	3537³)	36453)
	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
	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
9	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
Performance	5.5	Tractive force, with/without load	(N)	2300 / 2300	2300 / 2300	2300 / 2300	2300 / 2300	2300 / 2300	2300 / 2300
form	5.6	Maximum tractive force, with/without load	(N)	11000 / 11000	11000 / 11000	11000 / 11000	11000 / 11000	11000 / 11000	11000 / 11000
Per	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 / 4.0	4.5 / 4.0	4.5 / 4.0	4.6 / 4.0	4.6 / 4.0	4.7 / 4.1
	5.10	Service brake		hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.
	6.1	Drive motor, 60 minute rating	(kW)	2x 5					
Drive	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					
	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	48 / 550 (575) 4)	48 / 700	48 / 700	48 / 660 (690) 4)	48 / 700	48 / 840 (840) 4)
	6.5	Battery weight (± 5%)	(kg)	856	1118	1118	1013	1118	1309
	6.6	Power consumption according to VDI cycle	(kWh/h)	5.9	6.1	6.4	6.6	6.6	6.9
SLIS	8.1	Type of drive control		Digital/stepless	Digital/stepless	Digital/stepless	Digital/stepless	Digital/stepless	Digital/stepless
		Operating pressure for attachments	(bar)	170	170	170	170	170	170
ers	8.2		\ /						
Others	8.2	Oil flow for attachments	(I/min)	32	32	32	32	32	32

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

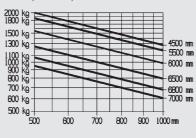
4) Values in parenthesis in accordance to ZVEI-bulletin "Battery cells application of the europe series in DIN batteries (issue date July 2002)"

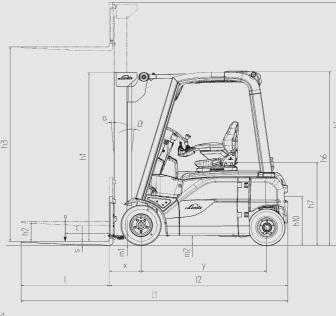


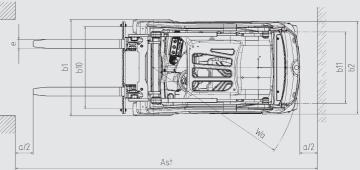




E20PL/E20PH/E20PHL







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

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

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

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