

Standard Equipment/Optional Equipment

Standard Equipment

- Truck
- Hydrostatic power steering
- Linde twin pedals for all vehicle movements
- Three wheeled configuration
- Dual axis fingertip joystick controls (Linde Load Control) integrated into the adjustable armrest
- 2 x 3.5 kW maintenance free AC drive motors (24 V - E 12, E 15)
- 2 x 4.6 kW maintenance free AC drive motors (48 V - E 14, E 16 C, E 16, E 16 L, E 16 H, E 18, E 18 L)
- 2 x 5 kW maintenance free AC drive motors (48 V - E 20 L)
- 5 kW maintenance free AC lift motor (24 V - E 12, E 15)
- 10 kW maintenance free AC lift motor (48 V - E 16 C, E 16, E 16 L, E 16 H, E 18, E 18 L)
- 11 kW maintenance free AC lift motor (48 V - E 20 L)
- Proportional reduction of travel speed when cornering (Linde Driver Assistant)
- Seamless electronic control of all traction and hydraulic movements

Optional Equipment

- Single pedal accelerator with forward/reverse selector in armrest
- Fabric covered seat
- Super comfort seat with air suspension, heater and backrest extension
- Swivelling seat
- Radio with CD-player
- Heating (with pollen protection filter)
- Overhead guard sun blind
- Clipboard
- Individual hydraulic control joystick
- Electrical socket 12 V
- External, internal and panoramic mirror
- Front and rear screens, wipers and top screen
- Full cab with hinged doors
- Polycarbonate top screen on overhead guard
- Tilt cylinder protection
- Standard mast lifts up to 5,610 mm
- Duplex mast (full free lift) lifts up to 3,825 mm
- Triplex mast (full free lift) lifts up to 6,075 mm

- Standard chassis suitable for working in ISO containers with appropriate mast
- Hydraulic cushioned, full suspension PVC operator's seat with armrest
- Comprehensive digital instrument display
- Superelastic tyres
- Generous storage facilities for writing materials and miscellaneous items
- Battery capacity for flat version (h6=1,970 mm)
E 12=24 V/575 Ah, E 15=24 V/920 Ah, E 14=48 V/460 Ah, E 16=48 V/575 Ah, E 16 C=48 V/460 Ah, E 16 L=48 V/690 Ah, E 18=48 V/575 Ah, E 18 L=48 V/690 Ah, E 20 L=48 V/690 Ah
- Raised version for greater battery capacity (h6=2,130 mm)
E 16 H=48 V/700 Ah

- Mast
- Clearview standard mast 2,800 mm lift (3,150 mm at E 16 H)
- Fork length 1,000 mm
- Fork carriage width 980 mm

- Integrated sideshift
- Integrated fork spreader
- Load backrest
- Single and double additional hydraulics for attachments
- Alternative fork length
- Alternative fork carriage widths
- Linde Fleet Management (LFM)
- Integrated HF charger unit, 2-phase and 3-phase versions, optionally with electrolyte circulation
- Truck lighting
- Flashing rotating beacon
- Working lamps
- Audible reversing alarm
- Full road lighting
- Alternative colour schemes
- Alternative tyre types
- Cold store protection

Other options available on request



Electric Counterbalance Trucks
Capacity 1200 - 2000 kg
E 12, E 14, E 15
E 16, E 18, E 20

Series 386



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.

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 hydrostatic power steering**
 - Minimal physical demands on the operator
 - Compact ergonomically designed steering wheel
 - Linde close coupled steer axle for outstanding manoeuvrability
 - Less tyre stress

- 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



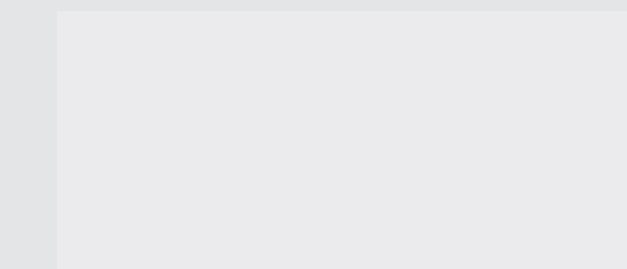
- Linde operator's compartment**
 - Ergonomically designed for efficient, fatigue-free working
 - Spacious operator's compartment with generous floor plate area
 - Cushioned comfort – mast and drive axle are isolated from the chassis and cab by a unique resilient suspension system that absorbs shock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

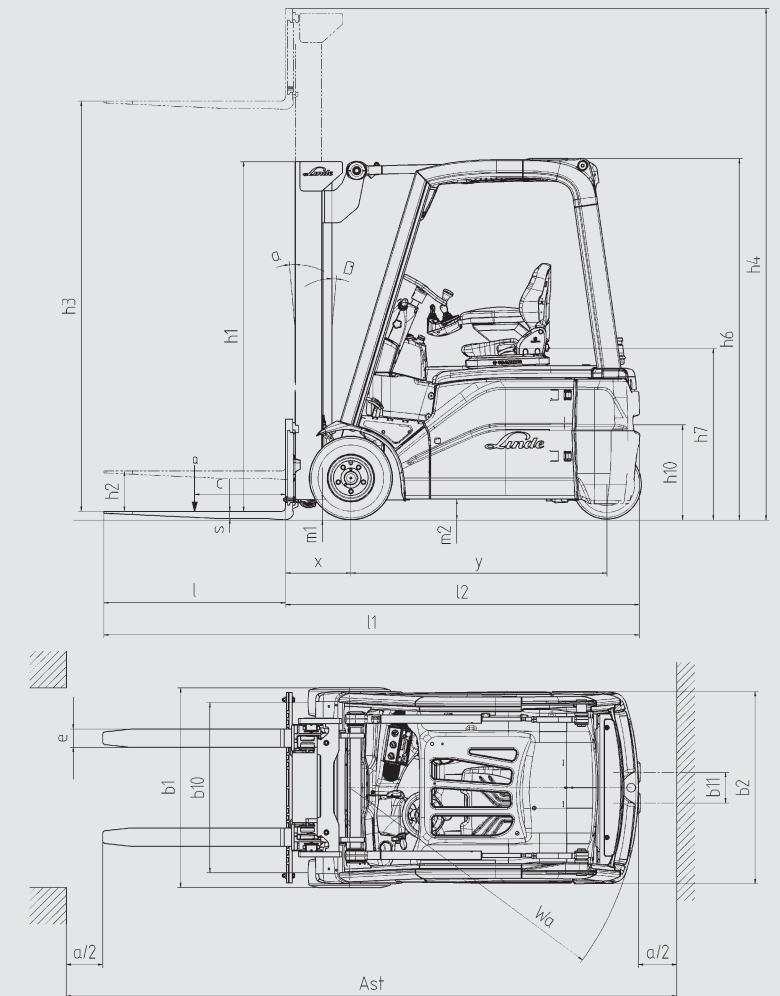


Technical Data according to VDI 2198

Characteristics	Linde Forklift Models											
	E12 (575Ah)	E15 (920Ah)	E14 (460Ah)	E16C (460Ah)	E16 (575Ah)	E16L (690Ah)	E16H (700Ah)	E18 (575Ah)	E18L (690Ah)	E20L (690Ah)		
1.1 Manufacturer	LINDE											
1.2 Model designation	E12 (575Ah) E15 (920Ah) E14 (460Ah) E16C (460Ah) E16 (575Ah) E16L (690Ah) E16H (700Ah) E18 (575Ah) E18L (690Ah) E20L (690Ah)											
1.3 Power unit	Battery											
1.4 Operation	Seat											
1.5 Load capacity	Q (t)											
1.6 Load centre	c (mm)											
1.8 Axle centre to fork face	x (mm)											
1.9 Wheelbase	y (mm)											
2.1 Service weight	(kg)											
2.2 Axle load with load, front/rear	(kg)											
2.3 Axle load without load, front/rear	(kg)											
3.1 Tyres rubber, SE, pneumatic, polyurethane	SE											
3.2 Tyre size, front	180/70-8 (18x7-8)											
3.3 Tyre size, rear	15x4 1/2-8											
3.5 Wheels, number front/rear (x = driven)	2x / 2											
3.6 Track width, front	b10 (mm)											
3.7 Track width, rear	b11 (mm)											
4.1 Mast/fork carriage tilt, forward/backward	a/b (°)											
4.2 Height of mast, lowered	h1 (mm)											
4.3 Free lift	h2 (mm)											
4.4 Lift	h3 (mm)											
4.5 Height of mast, extended	h4 (mm)											
4.7 Height of overhead guard (cabin)	h6 (mm)											
4.8 Height of seat/stand-on platform	h7 (mm)											
4.12 Towing coupling height	h10 (mm)											
4.19 Overall length	l1 (mm)											
4.20 Length to fork face	l2 (mm)											
4.21 Overall width	b1/b2 (mm)											
4.22 Fork dimensions	s/e/l (mm)											
4.23 Fork carriage to ISO 2328, class/type A, B	2A											
4.24 Width of fork carriage	b3 (mm)											
4.31 Ground clearance, below mast	m1 (mm)											
4.32 Ground clearance, centre of wheelbase	m2 (mm)											
4.33 Aisle width with pallet 1000 x 1200 across forks	Ast (mm)											
4.34 Aisle width with pallet 800 x 1200 along forks	Ast (mm)											
4.35 Turning radius	Wa (mm)											
4.36 Minimum pivoting point distance	b13 (mm)											
5.1 Travel speed, with/without load	(km/h)											
5.2 Lifting speed, with/without load	(m/s)											
5.3 Lowering speed, with/without load	(m/s)											
5.5 Tractive force, with/without load	(N)											
5.6 Maximum tractive force, with/without load	(N)											
5.7 Climbing ability, with/without load	(%)											
5.8 Maximum climbing ability, with/without load	(%)											
5.9 Acceleration time, with/without load	(s)											
5.10 Service brake	hydr./mech.											
6.1 Drive motor, 60 minute rating	(kW)											
6.2 Lift motor rating at 53 15%	(kW)											
6.3 Battery according to DIN 43531/35/36 A,B,C,no	43 535 / A											
6.4 Battery voltage/rated capacity (5h)	(V/Ah)											
6.5 Battery weight (± 5%)	(kg)											
6.6 Power consumption according to VDI cycle	(kWh/h)											
8.1 Type of drive control	Digital/stepless											
8.2 Operating pressure for attachments	(bar)											
8.3 Oil flow for attachments	(l/min)											
8.4 Noise level at operator's ear	(dB(A))											

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 euro-series in DIN batteries (issue date July 2002)“



Standard mast (in mm)	E 12/E 14/E 15/E 16/E 18				E 16 H	
	E 16 L/E 18 L/E 20 L					
Lift	h3	2800	3150	3850	4250	3150 3850 4210
Overall height, retracted (to 150mm free lift)	h1	2021	2196	2546	2746	2196 2546 2746
Overall height extended	h4	3363	3713	4453	4813	3713 4453 4813
Duplex mast (in mm)	E 12/E 14/E 15/E 16/E 18				E 16 H	
	E 16 L/E 18 L/E 20 L					
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)	E 12/E 14/E 15/E 16/E 18				E 16 H	
	E 16 L/E 18 L/E 20 L					
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