



## Standard Equipment/Optional Equipment

### Standard Equipment

Hydrostatic power steering  
 Linde twin accelerator pedals for all vehicle movements  
 Central lever (joystick control) integrated into the adjustable armrest  
 2 x 12 kW maintenance free AC drive motors  
 25 kW AC maintenance free lift motor  
 Different ECO modes providing the perfect combination of performance and efficiency  
 Graphic display of battery operating time in minutes  
 Automatic parking brake  
 Linde dual motor drive  
 Proportional reduction of travel speed when cornering (Linde Drive Assistant)  
 Seamless electronic control of all traction and hydraulic movements

Standard chassis suitable for working in ISO containers with appropriate mast  
 Hydraulically cushioned full suspension PVC operator's seat with armrest  
 Comprehensive digital instrument display  
 Generous storage facilities for writing materials and miscellaneous items  
 Superelastic tyres

#### Mast

Clearview standard mast 3,100 mm lift  
 Fork carriage width 1,350 mm for all models  
 Fork length 1,000 mm

### Optional Equipment

Single pedal accelerator with forward/reverse selector in the armrest  
 Heating (with pollen protection filter)  
 Radio with SD-card, Bluetooth and speakers  
 Fabric covered comfort seat  
 Super-comfort seat with air suspension, heater and backrest extension  
 Super Deluxe Active Seat with full automatic weight adjustment, heating and cooling  
 Swivelling seat  
 Individual or single hydraulic control joystick  
 Overhead guard sun blinds (front + top)  
 Clipboard with LED illumination  
 Front and rear screens, wipers and tops screen  
 Full cab with hinged doors  
 Polycarbonate top screen on overhead guard  
 Tilt cylinder protection  
 Alternative fork lengths  
 Alternative fork carriage widths  
 Integrated sideshift

One, two or three additional hydraulic circuits for attachments  
 Load backrest  
 Working lamps with LED technology  
 Truck lighting with LED technology on rear side  
 Full road lighting  
 Flashing beacon/rotating beacon  
 Audible reversing alarm  
 Electrical socket 12 V  
 External, internal and panoramic mirror  
 Integrated charger unit, optionally with electrolyte circulation  
 Active ventilation for battery charging  
 Alternative tyre types  
 Cold store protection  
 Alternative custom paintwork  
 Linde Fleet Management (LFM)

Other options available on request



Electric Counterbalanced Trucks  
 Capacity 3500 - 5000 kg  
 E35, E40, E45, E50

Series 388

Linde Material Handling

Linde

### 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 level 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.

### Reliability

An electric forklift 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 four simple and rapid battery changing methods. The result: more uptime and increased productivity.

## Features

#### Linde compact drive axle

→ Twin drive design with high performance  
 Linde AC technology  
 → Optimum energy efficiency  
 → Maintenance-free oil-bath vane brake  
 → Automatic parking brake  
 → Electronic components housed in sealed unit for complete protection

#### Linde hydrostatic power steering

→ Minimal physical demands on the operator  
 → Compact, ergonomically designed steering wheel  
 → Linde oscillating axle for outstanding manoeuvrability



#### 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 into adjustable armrest  
 → Precise and effortless fingertip control of all mast functions  
 → Safe and highly efficient load handling

#### Linde Dual Motor Drive

→ Two powerful AC drive motors integrated in the front axle  
 → Seamless acceleration and variable torque characteristics  
 → Extremely quiet in operation



#### Linde operator's compartment

→ Ergonomic design 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 shocks, vibrations and noise

#### Linde clearview mast design

→ 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 high lift heights  
 → High residual capacities in all applications

#### Linde energy management

→ Minimised 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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Subject to modification in the interest of progress. Illustrations and technical details could include options and not binding for actual constructions. All dimensions subject to usual tolerances.

# Technical Data according to VDI 2198

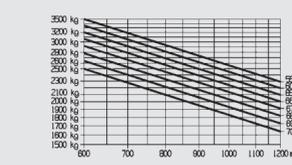
Characteristics		1.1	1.2	1.2a	1.3	1.4	1.5	1.6	1.8	1.9	
1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	
1.2	Model designation		<b>E35/600H</b>	<b>E40/600H</b>	<b>E45/600H</b>	<b>E40/600HL</b>	<b>E45/600HL</b>	<b>E50/500HL</b>	<b>E50/600HL</b>	<b>E40/600L-Container</b>	<b>E45/600HL Beverage</b>
1.2a	Series		388-00	388-00	388-00	388-00	388-00	388-00	388-00	388-00	388-00
1.3	Power unit		Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery
1.4	Operation		Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat
1.5	Load capacity	Q (t)	3.5	4.0	4.5	4.0	4.5	4.99	4.99	4.0	4.5
1.6	Load centre	c (mm)	600	600	600	600	600	500	600	600	600
1.8	Axle centre to fork face	x (mm)	538	548	548	548	548	548	548	548	548
1.9	Wheelbase	y (mm)	1905	1905	1905	2050	2050	2050	2050	2050	2050
Weights											
2.1	Service weight	(kg)	6670 <sup>1)</sup>	7157 <sup>1)</sup>	7660 <sup>1)</sup>	7084 <sup>1)</sup>	7537 <sup>1)</sup>	7692 <sup>1)</sup>	8041 <sup>1)</sup>	7179 <sup>1)</sup>	7773 <sup>1)</sup>
2.2	Axle load with load, front/rear	(kg)	9096 / 1074	9982 / 1175	10801 / 1359	9998 / 1086	10777 / 1260	11303 / 1379	11568 / 1463	10082 / 1097	10892 / 1381
2.3	Axle load without load, front/rear	(kg)	3505 / 3165 <sup>1)</sup>	3572 / 3585 <sup>1)</sup>	3589 / 4071 <sup>1)</sup>	3758 / 3326 <sup>1)</sup>	3757 / 3780 <sup>1)</sup>	3762 / 3930 <sup>1)</sup>	3784 / 4257 <sup>1)</sup>	3842 / 3337 <sup>1)</sup>	3872 / 3901 <sup>1)</sup>
Wheels/Tyres											
3.1	Tyres rubber, SE, pneumatic, polyurethane		SE	SE	SE	SE	SE	SE	SE	SE	SE
3.2	Tyre size, front		355/45-15 (28x12.5-15)	355/45-15 (28x12.5-15)	355/45-15 (28x12.5-15)	355/45-15 (28x12.5-15)	355/45-15 (28x12.5-15)	355/45-15 (28x12.5-15)	355/45-15 (28x12.5-15)	355/45-15 (28x12.5-15)	355/45-15 (28x12.5-15)
3.3	Tyre size, rear		225/75-10 (23x9-10)	225/75-10 (23x9-10)	225/75-10 (23x9-10)	225/75-10 (23x9-10)	225/75-10 (23x9-10)	225/75-10 (23x9-10)	225/75-10 (23x9-10)	225/75-10 (23x9-10)	225/75-10 (23x9-10)
3.5	Wheels, number front/rear (x = driven)		2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
3.6	Track width, front	b10 (mm)	1149	1149	1149	1149	1149	1149	1149	1149	1149
3.7	Track width, rear	b11 (mm)	932	932	932	932	932	932	932	932	932
Dimensions											
4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	5.0 / 8.0	5.0 / 8.0	5.0 / 8.0	5.0 / 8.0	5.0 / 8.0	5.0 / 8.0	5.0 / 8.0	5.0 / 8.0	5.0 / 7.0
4.2	Height of mast, lowered	h1 (mm)	2404	2404	2404	2404	2404	2404	2404	2210	2754
4.3	Free lift	h2 (mm)	150	150	150	150	150	150	150	1310	150
4.4	Lift	h3 (mm)	3100	3100	3100	3100	3100	3100	2900	4225	3800
4.5	Height of mast, extended	h4 (mm)	4000	4000	4000	4000	4000	4000	3900	5125	4700
4.7	Height of overhead guard (cabin)	h6 (mm)	2360	2360	2360	2360	2360	2360	2220	2710	2710
4.8	Height of seat/stand on platform	h7 (mm)	1230	1230	1230	1230	1230	1230	1155	1580	1580
4.12	Towing coupling height	h10 (mm)	722	722	722	722	722	722	722	722	722
4.19	Overall length	l1 (mm)	3712	3722	3722	3867	3867	3867	3887	3867	3867
4.20	Length to fork face	l2 (mm)	2712	2722	2722	2867	2867	2867	2887	2867	2867
4.21	Overall width	b1/b2 (mm)	1440 / 1278	1440 / 1278	1440 / 1278	1440 / 1278	1440 / 1278	1440 / 1278	1440 / 1278	1440 / 1278	1440 / 1278
4.22	Fork dimensions	s/e/l (mm)	50 x 120 x 1000	60 x 130 x 1000	60 x 130 x 1000	60 x 130 x 1000	60 x 130 x 1000	60 x 130 x 1000	60 x 130 x 1000	60 x 130 x 1000	60 x 130 x 1000
4.23	Fork carriage to ISO 2328, class/type A, B		3A	3A	3A	3A	3A	3A	3A	3A	3A
4.24	Width of fork carriage	b3 (mm)	1350	1350	1350	1350	1350	1350	1350	1350	1350
4.31	Ground clearance, below mast	m1 (mm)	146	145	144	145	144	143	143	145	144
4.32	Ground clearance, centre of wheelbase	m2 (mm)	160	160	160	160	160	160	160	160	160
4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	3954 <sup>2)</sup>	3964 <sup>2)</sup>	3984 <sup>2)</sup>	4109 <sup>2)</sup>	4109 <sup>2)</sup>	4109 <sup>2)</sup>	4109 <sup>2)</sup>	4109 <sup>2)</sup>	4109 <sup>2)</sup>
4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	4154 <sup>2)</sup>	4164 <sup>2)</sup>	4184 <sup>2)</sup>	4309 <sup>2)</sup>	4309 <sup>2)</sup>	4309 <sup>2)</sup>	4309 <sup>2)</sup>	4309 <sup>2)</sup>	4309 <sup>2)</sup>
4.35	Turning radius	Wa (mm)	2216	2236	2361	2361	2361	2361	2361	2361	2361
4.36	Minimum pivoting point distance	b13 (mm)	580	580	580	580	580	580	580	580	580
Performance											
5.1	Travel speed, with/without load	(km/h)	18 / 18	18 / 18	18 / 18	18 / 18	18 / 18	18 / 18	18 / 18	18 / 18	18 / 18
5.2	Lifting speed, with/without load	(m/s)	0.45 / 0.56	0.42 / 0.56	0.39 / 0.56	0.39 / 0.56	0.42 / 0.56	0.39 / 0.56	0.35 / 0.5	0.39 / 0.52	0.39 / 0.56
5.3	Lowering speed, with/without load	(m/s)	0.55 / 0.55	0.55 / 0.55	0.55 / 0.55	0.55 / 0.55	0.55 / 0.55	0.55 / 0.55	0.55 / 0.55	0.55 / 0.55	0.55 / 0.55
5.5	Tractive force, with/without load	(N)	4600 / 4600	6100 / 6100	6100 / 6100	6100 / 6100	6100 / 6100	6100 / 6100	6100 / 6100	6100 / 6100	6100 / 6100
5.6	Maximum tractive force, with/without load	(N)	19000 / 19000	19000 / 19000	19000 / 19000	19000 / 19000	19000 / 19000	19000 / 19000	19000 / 19000	19000 / 19000	19000 / 19000
5.7	Climbing ability, with/without load	(%)	7.0 / 10.7	6.4 / 10.0	5.9 / 9.4	6.5 / 10.1	5.9 / 9.5	5.6 / 9.3	5.5 / 8.9	6.4 / 10.0	5.7 / 9.0
5.8	Maximum climbing ability, with/without load	(%)	19.4 / 30.3	17.6 / 28.1	16.1 / 26.1	17.7 / 28.4	16.3 / 26.6	15.4 / 26.0	15.0 / 24.8	17.6 / 27.9	15.8 / 25.1
5.9	Acceleration time, with/without load	(s)	upon request	4.7 / 3.9	4.9 / 4.1	4.7 / 3.9	4.9 / 4.1	5.2 / 4.3	5.3 / 4.4	4.7 / 3.9	5.2 / 4.3
5.10	Service brake		hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.
Drive											
6.1	Drive motor, 60 minute rating	(kW)	2x 12.5	2x 12.5	2x 12.5	2x 12.5	2x 12.5	2x 12.5	2x 12.5	2x 12.5	2x 12.5
6.2	Lift motor, rating at S3 15%	(kW)	25	25	25	25	25	25	25	25	25
6.3	Battery according to DIN 43531/35/36 A,B,C,no		43 536 / A	43 536 / A	43 536 / A	43 536 / A	43 536 / A	43 536 / A	43 536 / A	43 536 / A	43 536 / A
6.4	Battery voltage/rated capacity (5h)	(V/Ah)	80 / 700-775	80 / 700-775	80 / 700-775	80 / 840	80 / 840	80 / 840	80 / 840	80 / 840	80 / 840
6.5	Battery weight (± 5%)	(kg)	1863	1863	2178	1863	2178	2178	2178	2178	2178
6.6	Power consumption according to VDI cycle	(kWh/h)	11.9	13	14.2	12.9	14	14.8	15.2	13.1	14.7
Others											
8.1	Type of drive control		Digital/stepless	Digital/stepless	Digital/stepless	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	170	170	170
8.3	Oil flow for attachments	(l/min)	55	55	55	55	55	55	55	55	55
8.4	Noise level at operator's ear	(dB(A))	50	50	50	50	50	50	50	50	50

1) Figures with battery, see line 6.4/6.5.

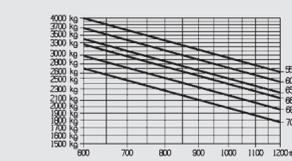
2) Including a 200 mm (min.) operating aisle clearance.

## Load Capacity Diagrams

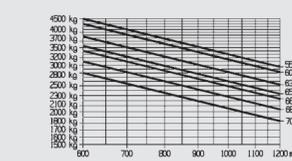
E35/600H



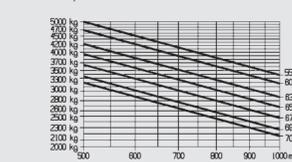
E40/600H, E40/600HL



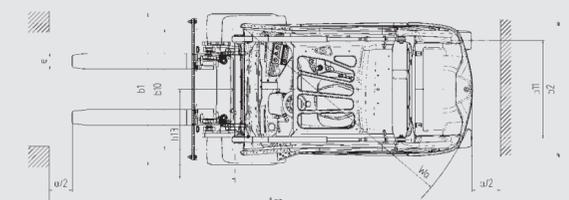
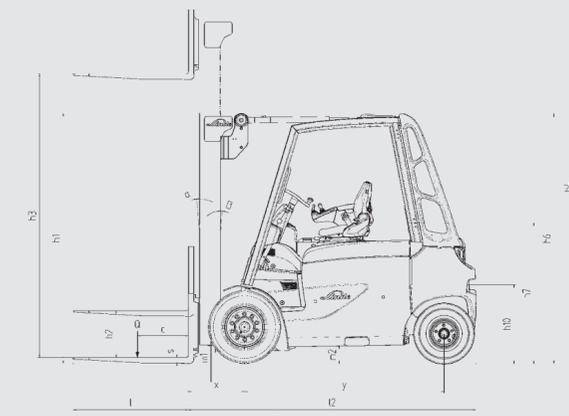
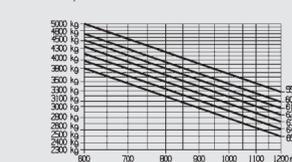
E45/600H, E45/600HL



E50/500HL



E50/600HL



	Standard mast	E35/600H E40/600H; E40/600HL E45/600H; E45/600HL E50/500HL					E50/600HL						
		h3	h1	h4	h2	h3	h1	h4	h2	h3	h1	h4	h2
Lift	h3	3100	3700	4100	4400	5000	3200	3700	4100	4400	5000		
Mast retracted	h1	2404	2704	2904	3054	3354	2554	2804	3001	3154	3454		
Mast extended	h4	4000	4600	5000	5300	5900	-	-	-	-	-		
Free lift	h2	150	150	150	150	150	150	150	150	150	150		

	Triplex mast	E35/600H E40/600H; E40/600HL E45/600H; E45/600HL E50/500HL			E50/600HL			E40/600L E45/600L Cont.	E50/500L E50/600L Cont.	
		h3	h1	h4	h3	h1	h4	h3	h1	
Lift	h3	4675	5515	6015	4375	4615	5065	5565	4225	3925
Mast retracted	h1	2360	2660	2860	2360	2660	2860	2860	2210	2210
Mast extended	h4	5575	6415	6915	5575	6415	6915	6915	5125	4924
Free lift	h2	1460	1760	1960	1460	1760	1960	1960	1310	1210

Figures in mm  
Figures for other masts on request