



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 CD player
- 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
E 35, E 40, E 45, E 50

Series 388

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 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 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**
- 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



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

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Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		E35/600H	E40/600H	E45/600H	E40/600HL	E45/600HL	E50/500HL	E50/600HL	E40/600L-Container	E45/600L-Container	E50/500L-Container
	1.3	Power unit		Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery
	1.4	Operation		Seat	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	4.99
	1.6	Load centre	c (mm)	600	600	600	600	600	500	600	600	600	600
	1.8	Axle centre to fork face	x (mm)	538	548	548	548	548	548	548	548	548	548
	1.9	Wheelbase	y (mm)	1905	1905	1905	2050	2050	2050	2050	2050	2050	2050
Weights	2.1	Service weight	(kg)	6875 ¹⁾	7360 ¹⁾	7870 ¹⁾	7285 ¹⁾	7740 ¹⁾	7895 ¹⁾	8242 ¹⁾	7435 ¹⁾	7890 ¹⁾	8242 ¹⁾
	2.2	Axle load with load, front/rear	(kg)	9351 / 1024	10235 / 1125	11057 / 1313	10230 / 1055	11025 / 1215	11551 / 1334	11823 / 1409	10410 / 1025	11205 / 1185	11456 / 1304
	2.3	Axle load without load, front/rear	(kg)	3760 / 3115 ¹⁾	3825 / 3535 ¹⁾	3845 / 4025 ¹⁾	3990 / 3295 ¹⁾	4005 / 3735 ¹⁾	4010 / 3885 ¹⁾	4039 / 4203 ¹⁾	4170 / 3265 ¹⁾	4185 / 3705 ¹⁾	3915 / 3855 ¹⁾
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		SE	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)	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)	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	2x / 2
	3.6	Track width, front	b10 (mm)	1149	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	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 / 8.0	5.0 / 8.0
	4.2	Height of mast, lowered	h1 (mm)	2404	2404	2404	2404	2404	2404	2404	2210	2210	2209
	4.3	Free lift	h2 (mm)	150	150	150	150	150	150	1310	1310	1210	1210
	4.4	Lift	h3 (mm)	3100	3100	3100	3100	3100	3100	2900	4225	4225	3925
	4.5	Height of mast, extended	h4 (mm)	4000	4000	4000	4000	4000	4000	3900	5125	5125	4924
	4.7	Height of overhead guard (cabin)	h6 (mm)	2360	2360	2360	2360	2360	2360	2220	2220	2220	2220
	4.8	Height of seat/stand-on platform	h7 (mm)	1230	1230	1230	1230	1230	1230	1155	1155	1155	1155
	4.12	Towing coupling height	h10 (mm)	722	722	722	722	722	722	722	722	722	722
	4.19	Overall length	l1 (mm)	3712	3722	3722	3867	3867	3867	3867	3867	3867	3867
	4.20	Length to fork face	l2 (mm)	2712	2722	2722	2867	2867	2867	2867	2867	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	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	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	3A
	4.24	Width of fork carriage	b3 (mm)	1350	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	143
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	160	160	160	160	160	160	160	160	160	160
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	3954 ²⁾	3964 ²⁾	3984 ²⁾	4109 ²⁾	4109 ²⁾	4109 ²⁾	4109 ²⁾	4109 ²⁾	4109 ²⁾	4109 ²⁾
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	4154 ²⁾	4164 ²⁾	4184 ²⁾	4309 ²⁾	4309 ²⁾	4309 ²⁾	4309 ²⁾	4309 ²⁾	4309 ²⁾	4309 ²⁾
	4.35	Turning radius	Wa (mm)	2216	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	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	18 / 18
	5.2	Lifting speed, with/without load	(m/s)	0.45 / 0.56	0.42 / 0.56	0.39 / 0.56	0.42 / 0.56	0.39 / 0.56	0.35 / 0.5	0.35 / 0.5	0.42 / 0.56	0.39 / 0.56	0.35 / 0.5
	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	0.55 / 0.55
	5.5	Tractive force, with/without load	(N)	7000 / 7000	7000 / 7000	7000 / 7000	7000 / 7000	7000 / 7000	7000 / 7000	7000 / 7000	7000 / 7000	7000 / 7000	7000 / 7000
	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	19000 / 19000
	5.7	Climbing ability, with/without load	(%)	6.9 / 10.4	6.3 / 9.7	5.8 / 9.1	6.3 / 9.8	5.8 / 9.3	5.5 / 9.1	5.4 / 8.7	6.3 / 9.8	5.8 / 9.3	5.5 / 9.1
	5.8	Maximum climbing ability, with/without load	(%)	19.0 / 29.4	17.3 / 27.3	15.2 / 25.4	17.4 / 27.6	16.0 / 25.8	15.2 / 25.3	14.8 / 24.2	17.4 / 27.6	16.0 / 25.8	15.2 / 25.3
	5.9	Acceleration time, with/without load	(s)	4.5 / 3.7	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	4.9 / 4.1	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.	hydr./mech.
Drive	6.1	Drive motor, 60 minute rating	(kW)	2x 11.9	2x 11.9	2x 11.9	2x 11.9	2x 11.9	2x 11.9	2x 11.9	2x 11.9	2x 11.9	2x 11.9
	6.2	Lift motor rating at S3 15%	(kW)	25	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	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	80 / 840
	6.5	Battery weight (± 5%)	(kg)	1863	1863	1863	2180	2180	2180	2180	2180	2180	2180
	6.6	Power consumption according to VDI cycle	(kWh/h)	11,9	13	14,2	13	14	14,8	15,2	13	14	14,8
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	Digital/stepless
	8.2	Operating pressure for attachments	(bar)	170	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	55
	8.4	Noise level at operator's ear	(dB(A))	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0

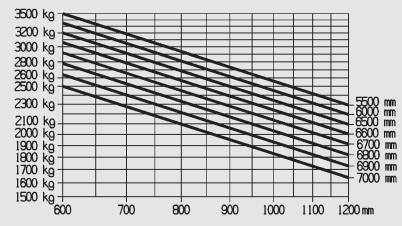
1) Figures with battery, see line 6.4/6.5.

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

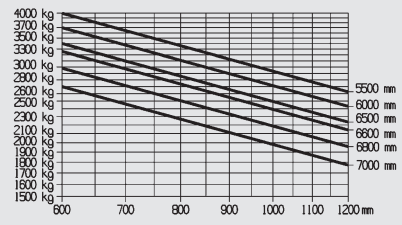
Load Capacity Diagrams

Valid for Standard mast and fork carriage with SE tyres
28x12.5-15

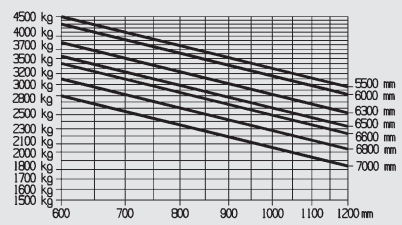
E 35/600 H



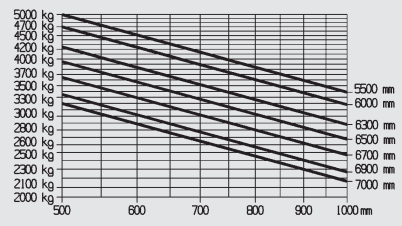
E 40/600 H, E 40/600 HL



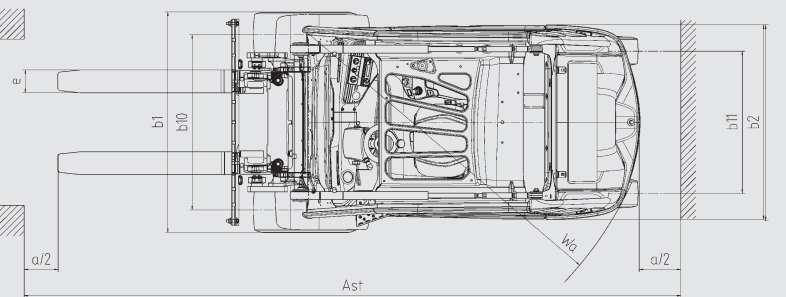
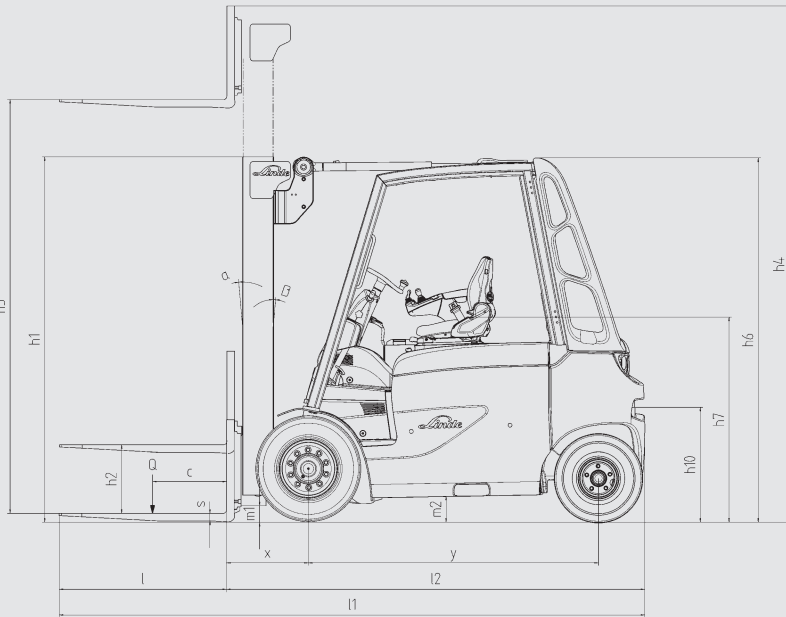
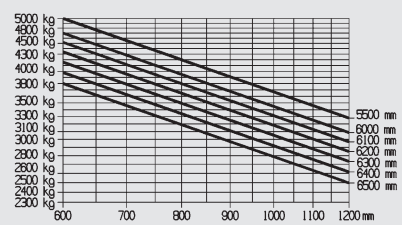
E 45/600 H, E 45/600 HL



E 50/500 HL



E 50/600 HL



Standard mast		E35/600H E40/600H; E40/600HL E45/600H; E45/600HL E50/500HL					E50/600HL				
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.
Lift	h3	4675	5515	6015	615	4375	4615	5065	5565	4225	3925
Mast retracted	h1	2360	2660	2860	2360	2660	2860	2860	2860	2210	2210
Mast extended	h4	5575	6415	6915	5575	6415	6915	6915	6915	5125	4924
Free lift	h2	1460	1760	1960	1460	1760	1960	1960	1960	1310	1210

Figures in mm
Figures for other masts on request