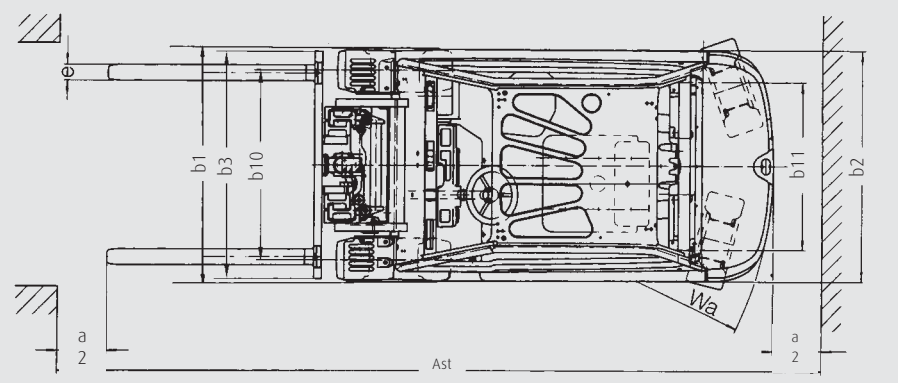
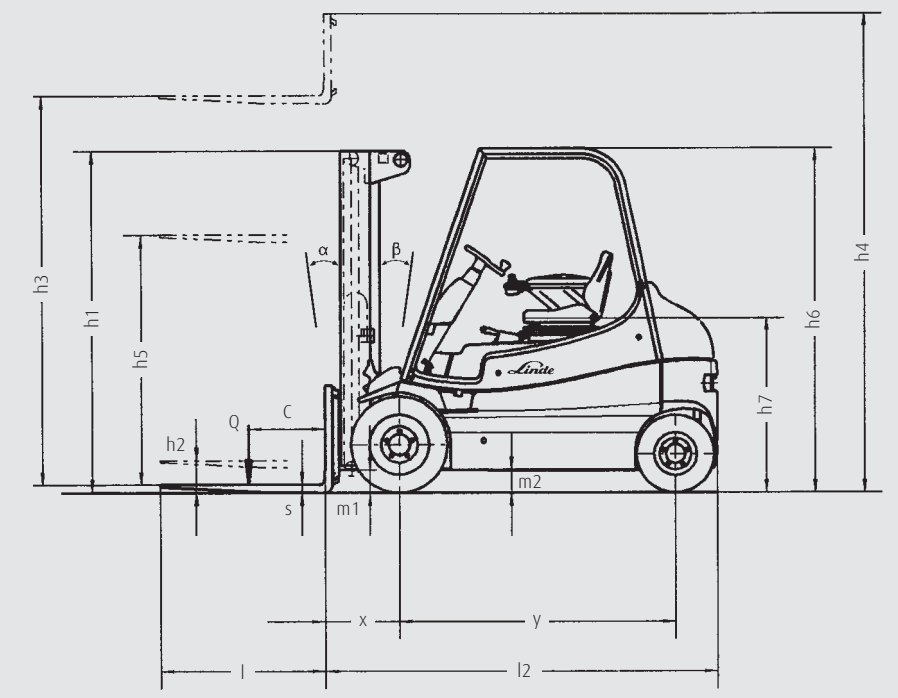


# Technical data

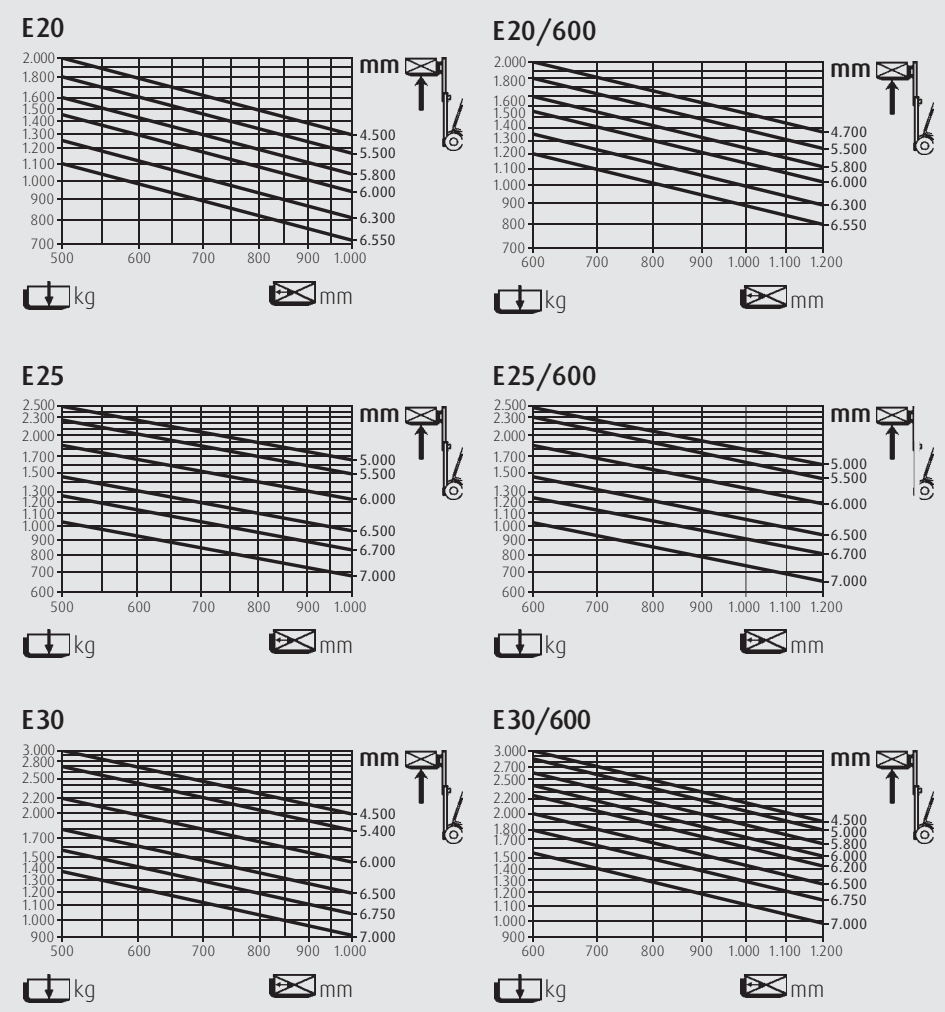
Characteristics	Model designation							
	E 20	E 20/600	E 25	E 25/600	E 30	E 30/600	E 30/600	E 30/600
1.1 Manufacturer	LINDE							
1.2 Model designation	E 20							
1.3 Power unit: battery, diesel, petrol, LP gas, mains power	Battery							
1.4 Operation: manual, pedestrian, stand-on, seated, order picker	Seated							
1.5 Load capacity	Q (kg)	2000	2000	2500	2500	3000	3000	3000
1.6 Load centre	c (mm)	500	600	500	600	500	600	600
1.8 Axle centre to fork face	x (mm)	424	424	447	447	450	455	455
1.9 Wheelbase	y (mm)	1502	1502	1670	1670	1670	1670	1670
2.1 Service weight	kg	3770	4200	4505	4985	4925	5445	5445
2.2 Axle load with load, front/rear	kg	5120/650	5420/780	6175/830	6490/995	7055/870	7445/1000	7445/1000
2.3 Axle load without load, front/rear	kg	1890/1880	2055/2145	2255/2250	2425/2560	2350/2575	2550/2895	2550/2895
3.1 Tyres, front/rear, SE = superelastic, P = pneumatic		SE/SE	SE/SE	SE (P)/SE (P) <sup>3)</sup>	SE (P)/SE (P) <sup>3)</sup>	SE/SE	SE/SE	SE/SE
3.2 Tyre size, front		21 x 8-9	21 x 8-9	23 x 9-10 <sup>3)</sup>	23 x 9-10 <sup>3)</sup>	23 x 9-10 <sup>3)</sup>	23 x 10-12	23 x 10-12
3.3 Tyre size, rear		16 x 6-8	16 x 6-8	18 x 7-8 <sup>3)4)</sup>	18 x 7-8 <sup>3)4)</sup>	18 x 7-8 <sup>4)</sup>	18 x 7-8 <sup>4)</sup>	18 x 7-8 <sup>4)</sup>
3.5 Wheels, number front/rear (x = driven)		2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2
3.6 Track width, front	b10 (mm)	890	890	960	960	960	980	980
3.7 Track width, rear	b11 (mm)	757	757	850	850	850	850	850
4.1 Mast/fork carriage tilt, forward/back	α/β (°)	5/7.5	5/7.5	5/7.5	5/7.5	5/7.5	5/7.5	5/7.5
4.2 Height of mast, lowered	h1 (mm)	2227 <sup>3)</sup>	2227 <sup>3)</sup>	2229 <sup>3)</sup>	2229 <sup>3)</sup>	2229 <sup>3)</sup>	2229 <sup>3)</sup>	2229 <sup>3)</sup>
4.3 Free lift	h2 (mm)	150	150	150	150	150	150	150
4.4 Lift	h3 (mm)	3150	3150	3050	3050	3050	3050	3050
4.5 Height of mast, extended	h4 (mm)	3708	3708	3688	3688	3841	3841	3841
4.7 Height of overhead guard (cab)	h6 (mm)	2070	2227	2100	2257	2100	2257	2257
4.8 Seat height	h7 (mm)	1018	1175	1048	1205	1048	1200	1200
4.12 Towing coupling height	h10 (mm)	611	611	650	650	650	650	650
4.19 Overall length	l1 (mm)	3150	3411	3370	3578	3425	3587	3587
4.20 Length to fork face	l2 (mm)	2150	2211	2370	2378	2425	2387	2387
4.21 Overall width	b1/b2 (mm)	1090	1090	1180	1180	1180	1228	1228
4.22 Fork dimensions	s/e/l (mm)	45 x 100 x 1000	45 x 100 x 1200	45 x 100 x 1000	45 x 100 x 1200	45 x 100 x 1000	50 x 120 x 1200	50 x 120 x 1200
4.23 Fork carriage DIN 15173, class/form A, B		2 A	2 A	2 A	2 A	3 A	3 A	3 A
4.24 Fork carriage width	b3 (mm)	1080	1080	1150	1150	1150	1150	1150
4.31 Ground clearance, mast	m1 (mm)	111	110	136	136	134	139	139
4.32 Ground clearance, centre of wheelbase	m2 (mm)	117	116	117	117	115	120	120
4.33 Aisle width, pallet 1000 x 1200 across forks	Ast (mm)	3472	3532	3691	3691	3744	3749	3749
4.34 Aisle width, pallet 800 x 1200 along forks	Ast (mm)	3600	3660	3819	3819	3872	3878	3878
4.35 Turning radius	Wa (mm)	1727	1787	1925	1925	1975	1975	1975
4.36 Minimum pivot point distance	b13 (mm)	-	-	-	-	-	-	-
5.1 Travel speed, with/without load	km/h	15.5/17	15.5/17	15/16	15/16	15/16	15/16	15/16
5.2 Lifting speed, with/without load	m/s	0.41/0.58	0.41/0.58	0.37/0.55	0.37/0.55	0.35/0.55	0.35/0.55	0.35/0.55
5.3 Lowering speed, with/without load	m/s	0.50/0.50	0.50/0.50	0.50/0.50	0.50/0.50	0.50/0.50	0.50/0.50	0.50/0.50
5.5 Drawbar pull, with/without load	N	3214/3567	3400/3800	3984/4371	3984/4371	3826/4356	3826/4356	3826/4356
5.6 Maximum drawbar pull, with/without load	N	9220/9573	9600/10200	10858/10680	10858/10680	11702/11232	11702/11232	11702/11232
5.7 Climbing ability, with/without load	%	8/13.8	8/13.8	8/13.8	8/13.8	7/12.2	7/12.2	7/12.2
5.8 Maximum climbing ability, with/without load	%	16/26.8	16/26.8	16/26.8	16/26.8	14/24	14/24	14/24
5.9 Acceleration, with/without load (first 10 m)	s	5.4/4.9	5.4/4.9	5.0/4.6	5.0/4.6	5.2/4.8	5.2/4.8	5.2/4.8
5.10 Service brake		mech/elec	mech/elec	mech/elec	mech/elec	mech/elec	mech/elec	mech/elec
6.1 Drive motor, 60 minute rating	kW	2 x 5.5	2 x 5.5	2 x 6.4	2 x 6.4	2 x 6.4	2 x 6.4	2 x 6.4
6.2 Lift motor, 15% rating	kW	13.5	13.5	13.5	13.5	13.5	13.5	13.5
6.3 Battery to DIN		43536A	43536A	43536A	43536A	43536A	43536A	43536A
6.4 Battery voltage/rated capacity (5 h)	V/Ah	80/440	80/560	80/550	80/700	80/550	80/700	80/700
6.5 Battery weight (± 5%)	kg	1224	1558	1258	1863	1458	1863	1863
6.6 Power consumption to VDI cycle	kW/h	-	-	-	-	-	-	-
8.1 Type of drive control		Digital	Digital	Digital	Digital	Digital	Digital	Digital
8.2 Working pressure for attachments	bar	210	210	175	175	200	200	200
8.3 Oil flow for attachments	l/min	30	30	30	30	30	30	30
8.4 Noise level at operator's ear	dB (A)	-	-	-	-	-	-	-
8.5 Towing coupling design/type		-	-	-	-	-	-	-

1) Optionally 23 x 10 - 12 SE, b1 = 1228 mm  
 2) Optionally pneumatic tyres  
 3) With 150 mm free lift on standard mast  
 4) Optionally 200/5-10 SE



Safety clearance a = 200 mm

## Lifting capacity diagrams



Capacity diagrams for trucks with SE tyres and without integral sideshift. Maximum allowable load may be restricted when fitting tyres other than those specified as standard and when using sideshifts or other attachments. Capacity diagrams for triplex masts are available on request.

E 20 and E 20/600	Standard mast			Duplex mast			Triplex mast									
	h3	h1	h2	h3	h1	h2	h3	h1	h2							
Lift	3150	3550	4050	4650	-	3020	3320	3820	-	4475	4865	5515	5965	6765	-	
Height of mast, lowered <sup>3)</sup>	h1	2227	2427	2677	2977	-	2054	2204	2454	-	2054	2204	2454	2604	2904	-
Height of mast, extended	h4	3708	4108	4608	5208	-	3578	3878	4378	-	5033	5423	6073	6523	7323	-
Free lift	h2	150	150	150	150	-	1524	1674	1924	-	1525	1675	1925	2075	2375	-

E 25 and E 25/600	Standard mast			Duplex mast			Triplex mast									
	h3	h1	h2	h3	h1	h2	h3	h1	h2							
Lift	h3	2850	3050	3450	4050	4550	2865	3165	3665	-	4265	4655	5305	5905	6555	-
Height of mast, lowered <sup>3)</sup>	h1	2129	2229	2429	2729	2979	2056	2206	2456	-	2056	2206	2456	2656	2906	-
Height of mast, extended	h4	3488	3688	4088	4688	5188	3503	3803	4303	-	4903	5293	5943	6543	7193	-
Free lift	h2	150	150	150	150	150	1424	1574	1824	-	1424	1574	1824	2024	2274	-

E 30 and E 30/600	Standard mast			Duplex mast			Triplex mast									
	h3	h1	h2	h3	h1	h2	h3	h1	h2							
Lift	h3	2850	3050	3450	4050	4550	2915	3215	3715	-	4315	4705	5355	5955	6605	-
Height of mast, lowered <sup>3)</sup>	h1	2129	2229	2429	2729	2979	2081	2231	2481	-	2056	2206	2456	2656	2906	-
Height of mast, extended	h4	3641	3841	4241	4841	5341	3706	4006	4506	-	5106	5496	6146	6746	7396	-
Free lift	h2	150	150	150	150	150	1274	1424	1674	-	1274	1424	1674	1874	2124	-

Alternative lift heights on request. Lift height = h3 + s.  
 E 20 and E 20/600 with Type 183 mast; E 25, E 25/600, E 30 and E 30/600 with Type 186 mast.



## Standard and optional equipment

### Standard equipment

#### General

Four-wheel configuration  
Hydrostatic power steering  
Dual axis, fingertip hydraulic control joystick  
Linde twin accelerator pedals  
Full suspension PVC seat  
Superelastic tyres  
Comprehensive digital instrument display  
Linde digital electronic control  
2 x 5.0 kW DC drive motors (E 20, E 20/600)  
2 x 6.4 kW DC drive motors (E 25 to E 30/600)  
13.5 kW DC lift motor  
Tilting operator's cab  
Fork length 1000 mm (E 20 to E 30),  
1200 mm (E 20/600 to E 30/600)  
Clearview standard mast lift 3150 mm (E 20, E 20/600),  
3050 mm (E 25 to E 30/600)

### Options

Standard mast lifts to 4650 mm (E 20, E 20/600),  
4550 mm (E 25 to E 30/600)  
Duplex mast lifts to 3820 mm (E 20, E 20/600),  
3665 mm (E 25, E 25/600), 3715 mm (E 30, E 30/600)  
Triplex mast lifts to 6765 mm (E 20, E 20/600),  
6555 mm (E 25, E 25/600), 6605 mm (E 30, E 30/600)  
Single accelerator pedal layout with direction selector  
Individual hydraulic control joysticks  
Fabric covered seat  
Super-comfort seat with heater and backrest extension  
Integral sideshift  
Load backrest extension  
Additional hydraulics  
Truck lighting/flashing amber beacon/working lamps

#### Batteries and chargers

80 V, 400 Ah to 700 Ah  
Wide selection of chargers available to suit application

#### Electronics

Linde Digital Control system (LDC)  
incorporating CAN bus technology

#### Safety

Three independent braking systems  
Emergency circuit isolator  
Handbrake interlock for gradient start without roll back  
Electric horn  
Electrical and hydraulic overload protection  
Overhead guard  
Seat belt

#### Overhead guard with:

Polycarbonate top screen  
Front screen, wiper and top screen  
Front and rear screens, wipers and top screen  
Cab heater and screen demister  
Full cab with hinged doors

Alternative tyre types and configurations  
Alternative fork lengths  
Audible reversing alarm  
Alternative colour schemes

Other options available on request



## Electric Counterbalance Trucks Capacity 2000 kg – 3000 kg E 20, E 20/600, E 25, E 25/600, E 30, E 30/600

SERIES 336-02

Linde Material Handling

#### Introduction

With its unique combi steer axle, this highly popular series provides the manoeuvrability and flexibility to operate both inside and outside to carry out a multitude of tasks in every kind of industrial application. The spacious and ergonomic operator's compartment provides the perfect interface for high efficiency and productivity.

#### Performance

The Linde drive concept employing advanced Linde control technology translates the powerful output of the twin drive motors into seamless productivity. A comprehensive selection of batteries ensures that each truck is precisely matched to the demands of individual applications.

#### Operator comfort

A perfect interface between operator and truck has been achieved with the Linde ergonomic design concept. The spacious cab and comfort-class seat with adjustable armrest combine with an intuitive control layout to provide a comfortable environment for optimum efficiency throughout the working shift.

#### Durability

Linde electric forklifts are constructed to undertake sustained heavy-duty tasks in their stride. The modular robot-welded chassis is designed for maximum strength and durability. The rugged construction and components ensure long life and durability.

#### Maximum uptime and productivity

Efficiency at work, efficiency in servicing. With up to 1000 hours between services and a computerised diagnostic system, maintenance intervals are minimal, operating costs are reduced and maximum productivity is achieved. All the truck's performance parameters can be configured to match individual application requirements.

## Features

#### Manoeuvrability

→ Linde hydrostatic power steering. The unique combi axle and the twin drive motors combine to provide exceptional manoeuvrability in confined areas

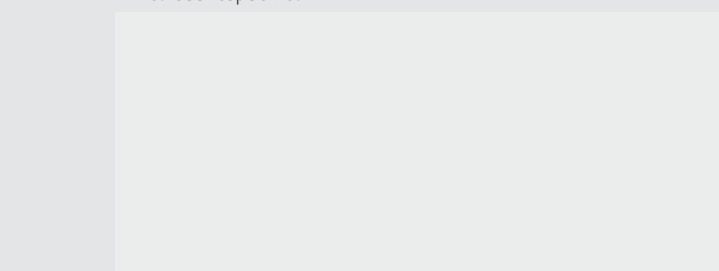
#### Linde twin accelerator pedals

→ Assured manoeuvring with Linde twin accelerator pedals  
→ Effortless forward/reverse selection places minimal demands on operator  
→ Operator is able to maintain high efficiency and productivity levels



#### Designed around the operator

→ Spacious cab with easy access, a comfort-class seat and an intuitive control layout  
→ Hydrostatic power steering for effortless manoeuvring  
→ Excellent visibility of load and surrounding environment  
→ Digital instrument display for instant read-out of truck status  
→ Chassis designed and built for maximum strength and durability  
→ Heavy-duty materials provide low centre of gravity for stability and high residual capacities



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#### The Linde clearview mast

→ Excellent visibility through the clearview mast enhanced by slim mast profiles  
→ High residual capacities  
→ Safe and stable load handling

#### Linde Load Control

→ Safe and precise load handling  
→ Effortless fingertip joystick control  
→ The joysticks are integrated in the adjustable armrest



#### Unique Linde combi axle

→ The unique Linde combi axle provides this four-wheeled truck with manoeuvrability characteristics similar to those of a three-wheeler combined with assured stability on uneven surfaces

#### High performance drive technology

→ Twin DC drive motors form the rugged front axle  
→ High-torque characteristics for operational flexibility  
→ Impressive gradient performance  
→ Responsive tractive power



#### Maximum uptime

→ Easy service access via the tilting cab  
→ Tilting cab enables efficient and rapid battery checking/changing routines  
→ All performance parameters can be configured to match the application  
→ The Linde digital control system incorporates diagnostic technology for fast servicing schedules  
→ Up to 1000 operating hours between services

