

# 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 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

- 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 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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## Linde hydrostatic power steering

- Minimal physical demands on the operator
- Compact ergonomically designed steering wheel
- Linde combi steer axle for outstanding manoeuvrability

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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.



# Electric Counterbalanced Trucks

## Capacity 2000 - 3500 kg

### E20, E25, E30, E35

Series 387

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

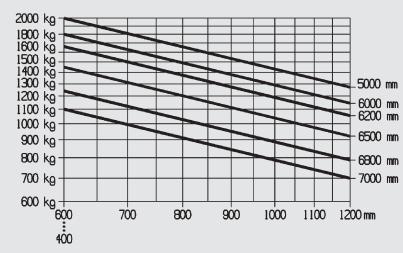
An electric forklift truck depends on reliable electronic systems. The Linde electronic control system provides a high level of reliability because of its dual circuit monitoring system and the sealed aluminium housing which provides total protection for the electronics from the ingress of dust and moisture.

## Productivity

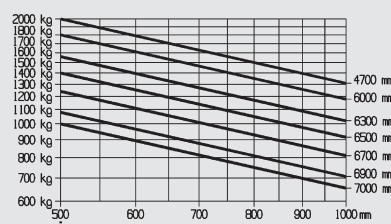
Effective in operation, efficient in reducing costs: The unique Linde energy management system ensures intelligent and economical consumption of energy. Energy can also be obtained quickly utilising the optional built-in charging unit or one of the four simple and rapid battery changing methods. The result: more uptime and increased productivity.

## Load Capacity Diagrams

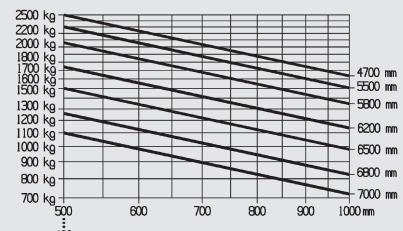
E20



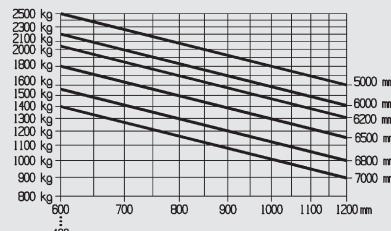
E20/600H



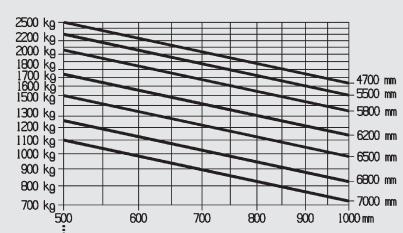
E25



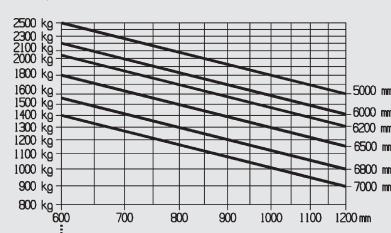
E25/600H



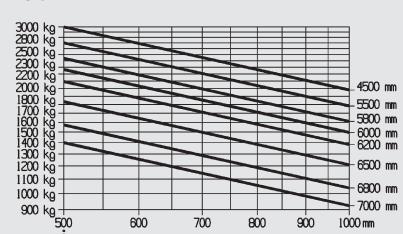
E25L



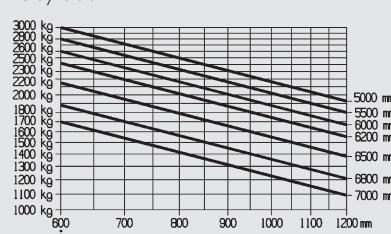
E25/600HL



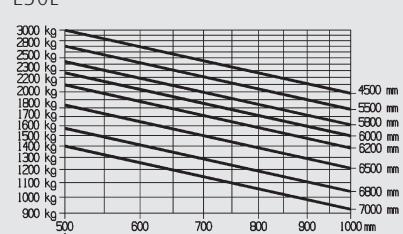
E30



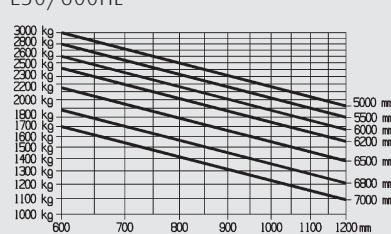
E30/600H



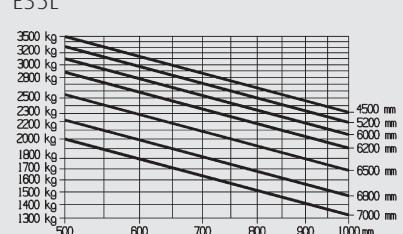
E30L



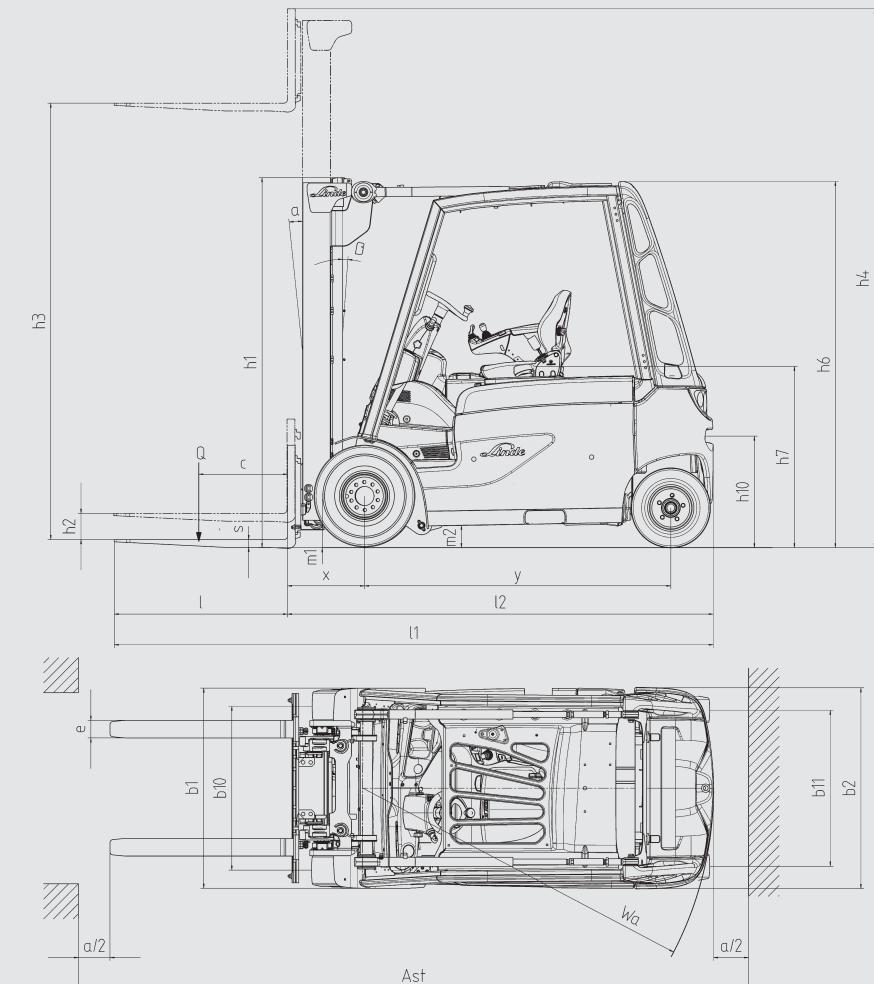
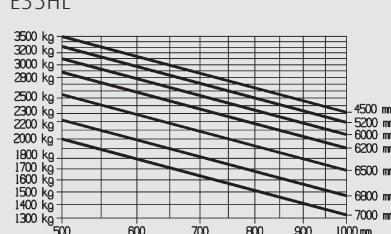
E30/600HL



E35L



E35L



Standard mast	E20 E25 E25L	E20 E25 E25L	E20 E20-600H E25 E25L	E30 E30L E35L	E25-600H / E25-600HL E30 / E30L E30-600H / E30-600HL E35L / E35HL							
Lift	h3	3150	3450	3750	4050	4550	3050	3200	3650	4050	4450	4950
Mast retracted *	h1	2247	2397	2547	2697	2947	2225	2300	2524	2724	2924	3174
Mast extended	h4	3813	4113	4413	4713	5213	3828	3978	4428	4828	5228	5728
Free lift	h2	150	150	150	150	150	150	150	150	150	150	150
Duplex mast	E20 E25 E25L	E20 E20-600H E25 E25L	E30 E30L E35L	E25-600H / E25-600HL E30 / E30L E30-600H / E30-600HL E35L / E35HL								
Lift	h3	3170	3770	2925	3215	3765	4065					
Mast retracted	h1	2174	2474	2081	2226	2501	2651					
Mast extended	h4	3832	4432	3652	3942	4442	4742					
Free lift	h2	1511	1811	1274	1424	1674	1824					
Triplex mast	E20 E25 E25L	E20 E20-600H E25 E25L	E30 E30L E35L	E25-600H / E25-600HL E30 / E30L E30-600H / E30-600HL E35L / E35HL								
Lift	h3	4715	4865	5165	5515	5965	6465	4350	4780	5355	5955	6455
Mast retracted	h1	2174	2224	2324	2474	2624	2824	2074	2224	2449	2649	2849
Mast extended	h4	5378	5528	5828	6178	6628	7128	5125	5555	6130	6730	7230
Free lift	h2	1511	1561	1661	1811	1961	2161	1299	1449	1674	1874	2074

Figures in mm  
Figures for other equipments and triplex masts on request

# Technical Data according to VDI 2198

## Standard Equipment/Optional Equipment

Characteristics	1.1	LINDE		
		E25/600HL	E30/600HL	E35HL
1.2	Model designation	Battery	Battery	Battery
1.3	Power unit	Seat	Seat	Seat
1.4	Operation	2.5	3.0	3.5
1.5	Load capacity Q (t)	c (mm)	600	600
1.6	Load centre x (mm)	y (mm)	468	476
1.8	Axle centre to fork face	z (mm)	1796	1796
1.9	Wheelbase	z (mm)	5445 <sup>a</sup>	5830 <sup>a</sup>
Weights	2.1	Service weight (kg)	5985 <sup>a</sup>	5985 <sup>a</sup>
Wheels/Tyres	2.2	Axle load with load, front/rear (kg)	7057 / 888	7937 / 893
Dimensions	2.3	Axle load without load, front/rear (kg)	3070 / 2375 <sup>a</sup>	3140 / 2690 <sup>a</sup>
4.1	Mast/fork carriage tilt, forward/backward a/b (°)	5.0 / 8.0	5.0 / 8.0	5.0 / 8.0
4.2	Height of mast, lowered h1 (mm)	2297	2299	2295
4.3	Free lift h2 (mm)	150	150	150
4.4	Lift h3 (mm)	3200	3200	3200
4.5	Height of mast, extended h4 (mm)	3975	3977	3973
4.7	Height of overhead guard (cabin) h6 (mm)	2237	2237	2237
4.8	Height of seat/stand-on platform h7 (mm)	1160	1160	1160
4.12	Towing coupling height h10 (mm)	659	661	659
4.19	Overall length l1 (mm)	3520	3528	3528
4.20	Length to fork face l2 (mm)	2520	2528	2528
4.21	Overall width b1/b2 (mm)	1150 / 1146	1228 / 1146	1322 / 1146
4.22	Fork dimensions s/e/l (mm)	45 x 100 x 1000	50 x 120 x 1000	50 x 120 x 1000
4.23	Fork carriage to ISO 2328, class/type A, B	2A	3A	3A
4.24	Width of fork carriage b3 (mm)	1150	1150	1150
4.31	Ground clearance, below mast m1 (mm)	127	136	129
4.32	Ground clearance, centre of wheelbase m2 (mm)	120	120	120
4.33	Aisle width with pallet 1000 x 1200 across forks Ast (mm)	3838 <sup>a</sup>	3845 <sup>a</sup>	3845 <sup>a</sup>
4.34	Aisle width with pallet 800 x 1200 along forks Ast (mm)	3967 <sup>a</sup>	3975 <sup>a</sup>	3975 <sup>a</sup>
4.35	Turning radius Wa (mm)	2052	2052	2052
4.36	Minimum pivoting point distance b13 (mm)	0	0	0
5.1	Travel speed, with/without load (km/h)	20 / 20	20 / 20	20 / 20
5.2	Lifting speed, with/without load (m/s)	0.44 / 0.53	0.42 / 0.51	0.39 / 0.51
5.3	Lowering speed, with/without load (m/s)	0.56 / 0.56	0.56 / 0.56	0.56 / 0.56
5.5	Tractive force, with/without load (N)	4600 / 4600	4600 / 4600	4600 / 4600
5.6	Maximum tractive force, with/without load (N)	15000 / 15000	15000 / 15000	15000 / 15000
5.7	Climbing ability, with/without load (%)	5.9 / 8.6	5.3 / 8.1	4.9 / 7.9
5.8	Maximum climbing ability, with/without load (%)	19.6 / 29.3	17.6 / 27.2	16.3 / 26.4
5.9	Acceleration time, with/without load (s)	upon request	upon request	upon request
5.10	Service brake hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.
6.1	Drive motor, 60 minute rating (kW)	2x 9	2x 9	2x 9
6.2	Lift motor rating at S3 15%	22	22	22
6.3	Battery according to DIN 43531/35/36 A,B,C,no	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
6.5	Battery weight ( $\pm 5\%$ ) (kg)	1863	1863	1863
6.6	Power consumption according to VDI cycle (kWh/h)	7,9	8,7	9,8
8.1	Type of drive control	Digital/stepless	Digital/stepless	Digital/stepless
8.2	Operating pressure for attachments (bar)	170	170	170
8.3	Oil flow for attachments (l/min)	50	50	50
8.4	Noise level at operator's ear (dB(A))	<65.0	<65.0	<65.0

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

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

### Standard Equipment

#### Hydrostatic power steering

Linde twin accelerator pedals for all vehicle movements

Central lever (joystick control) integrated into the adjustable armrest

2 x 9 kW maintenance free AC drive motors

22 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 patented combi axle in all models up to 3.5 t.

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 adjustable 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 3,110 mm lift

Fork carriage width:

1,080 mm for E20, E20/600H, E25, E25L

1,150 mm for E25/600H, E25/600HL, E30, E30/600 H, E30/600 HL, E30 L, E35 L, E35 HL

Fork length 1,000 mm

### Optional Equipment

Single pedal accelerator with forward/reverse selector in the armrest

Standard mast lifts up to 5,450 mm

Duplex mast lifts (full free lift) up to 4,270 mm with 2 t. truck

Triplex mast lifts (full free lift) up to 6,465 mm with 2 t. truck

Alternative fork lengths

Alternative fork carriage widths

Integrated sideshift

Integrated fork spreader

Tilt cylinder protection

Load backrest

One, two or three additional hydraulic circuits for attachments

Polycarbonate top screen on overhead guard

Front and rear screens, wipers and tops screen

Full cab with hinged doors

Overhead guard sun blinds (front + top)

Heating (with pollen protection filter)

Radio with CD player

Fabric covered comfort seat

Super-comfort seat with air suspension, heater and backrest extension

Swivelling seat

Integrated charger unit, optionally with electrolytic circulation

Individual or single hydraulic control joystick

Working lamps with LED technology

Truck lighting with LED technology (only rear lights)

Full road lighting

Flashing beacon/rotating beacon

Audible reversing alarm

External, internal and panoramic mirror

Clipboard with LED illumination

Cold store protection

Active ventilation for battery charging

Alternative custom paintwork

Linde Fleet Management (LFM)

Alternative tyre types

Electrical socket 12 V

Other options available on request

# Technical Data according to VDI 2198

	1.1	Manufacturer	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE
Characteristics	1.2	Model designation	E20	E25	E30	E20/600H	E25/600H	E30/600H	E25L	E30L	E35L		
	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)	2.0	2.5	3.0	2.0	2.5	3.0	2.5	3.0		3.5
	1.6	Load centre	c (mm)	500	500	500	600	600	600	500	500		500
	1.8	Axle centre to fork face	x (mm)	445	445	471	445	468	476	445	471		476
	1.9	Wheelbase	y (mm)	1622	1622	1665	1651	1651	1651	1767	1767		1810
	2.1	Service weight	(kg)	4210 <sup>a</sup>	4654 <sup>a</sup>	5325 <sup>a</sup>	4825 <sup>a</sup>	5430 <sup>a</sup>	5870 <sup>a</sup>	4585 <sup>a</sup>	5365 <sup>a</sup>		5705 <sup>a</sup>
	2.2	Axle load with load, front/rear	(kg)	5615 / 595	6401 / 753	7560 / 765	5886 / 939	7082 / 848	8000 / 870	6412 / 673	7564 / 801		8422 / 783
	2.3	Axle load without load, front/rear	(kg)	2450 / 1760 <sup>a</sup>	2444 / 2210 <sup>a</sup>	2810 / 2515 <sup>a</sup>	2620 / 2205 <sup>a</sup>	2965 / 2465 <sup>a</sup>	3045 / 2825 <sup>a</sup>	2575 / 2010 <sup>a</sup>	2915 / 2450 <sup>a</sup>		3035 / 2670 <sup>a</sup>
Weights	3.1	Tyres rubber, SE, pneumatic, polyurethane	SE	SE	SE	SE	SE	SE	SE	SE	SE		SE
	3.2	Tyre size, front		225/75-10 (23x9-10)	250/60-12(23x10-12)	225/75-10 (23x9-10)	225/75-10 (23x9-10)		315/45-12				
	3.3	Tyre size, rear		180/70-8 (18x7-8)	180/60-10	200/50-10	180/70-8 (18x7-8)	180/60-10	200/50-10	180/60-10	200/50-10		200/50-10
	3.5	Wheels, number front/rear (x = driven)		2x / 2		2x / 2							
	3.6	Track width, front	b10 (mm)	942	942	942	942	942	980	942	942		1028
	3.7	Track width, rear	b11 (mm)	900	900	886	900	900	886	900	886		886
	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
Dimensions	4.2	Height of mast, lowered	h1 (mm)	2247	2247	2223	2397	2297	2300	2247	2222		2220
	4.3	Free lift	h2 (mm)	150	150	150	150	150	150	150	150		150
	4.4	Lift	h3 (mm)	3150	3150	3050	3450	3200	3200	3150	3050		3050
	4.5	Height of mast, extended	h4 (mm)	3813	3813	3826	4113	3975	3978	3813	3825		3823
	4.7	Height of overhead guard (cabin)	h6 (mm)	2080	2080	2080	2237	2237	2237	2080	2080		2080
	4.8	Height of seat/stand-on platform	h7 (mm)	1002	1002	1002	1160	1160	1160	1002	1002		1002
	4.12	Towing coupling height	h10 (mm)	621	621	623	656	658	656	624	622		626
	4.19	Overall length	l1 (mm)	3318	3318	3444	3352	3375	3383	3463	3539		3594
	4.20	Length to fork face	l2 (mm)	2318	2318	2444	2352	2375	2383	2463	2539		2594
	4.21	Overall width	b1/b2 (mm)	1150 / 1148	1150 / 1148	1150 / 1178	1150 / 1146	1150 / 1146	1228 / 1146	1150 / 1148	1150 / 1148		1322 / 1178
	4.22	Fork dimensions	s/e/l (mm)	45 x 100 x 1000	50 x 120 x 1000	45 x 100 x 1000	45 x 100 x 1000		50 x 120 x 1000				
	4.23	Fork carriage to ISO 2328, class/type A, B		2A	2A	3A	2A	2A	3A	2A	3A		3A
	4.24	Width of fork carriage	b3 (mm)	1080	1080	1150	1080	1150	1150	1080	1150		1150
	4.31	Ground clearance, below mast	m1 (mm)	130	129	136	130	127	136	130	136		129
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	120	120	120	120	120	120	120	120		120
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	3638 <sup>a</sup>	3638 <sup>a</sup>	3762 <sup>a</sup>	3672 <sup>a</sup>	3693 <sup>a</sup>	3700 <sup>a</sup>	3783 <sup>a</sup>	3857 <sup>a</sup>		3911 <sup>a</sup>
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	3766 <sup>a</sup>	3766 <sup>a</sup>	3891 <sup>a</sup>	3800 <sup>a</sup>	3822 <sup>a</sup>	3830 <sup>a</sup>	3911 <sup>a</sup>	3986 <sup>a</sup>		4041 <sup>a</sup>
	4.35	Turning radius	Wa (mm)	1873	1873	1973	1907	1907	1907	2018	2068		2118
	4.36	Minimum pivoting point distance	b13 (mm)	0	0	0	0	0	0	0	0		0
Performance	5.1	Travel speed, with/without load	(km/h)	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20		20 / 20
	5.2	Lifting speed, with/without load	(m/s)	0.45 / 0.56	0.45 / 0.56	0.42 / 0.51	0.45 / 0.56	0.44 / 0.53	0.42 / 0.51	0.45 / 0.56	0.42 / 0.51		0.39 / 0.51
	5.3	Lowering speed, with/without load	(m/s)	0.54 / 0.54	0.54 / 0.54	0.56 / 0.56	0.54 / 0.54	0.56 / 0.56	0.56 / 0.56	0.54 / 0.54	0.56 / 0.56		0.56 / 0.56
	5.5	Tractive force, with/without load	(N)	4600 / 4600	4600 / 4600	4600 / 4600	4600 / 4600	4600 / 4600	4600 / 4600	4600 / 4600	4600 / 4600		4600 / 4600
	5.6	Maximum tractive force, with/without load	(N)	15000 / 15000	15000 / 15000	15000 / 15000	15000 / 15000	15000 / 15000	15000 / 15000	15000 / 15000	15000 / 15000		15000 / 15000
	5.7	Climbing ability, with/without load	(%)	7.6 / 11.2	6.5 / 10.0	5.6 / 8.8	6.9 / 9.8	5.9 / 8.7	5.3 / 8.0	6.6 / 10.3	5.6 / 8.8		5.1 / 8.2
	5.8	Maximum climbing ability, with/without load	(%)	25.4 / 39.0	21.6 / 34.1	18.7 / 30.0	23.0 / 33.4	19.7 / 29.3	17.5 / 27.0	22.1 / 35.4	18.6 / 29.7		16.8 / 27.8
	5.9	Acceleration time, with/without load	(s)	upon request		upon request							
	5.10	Service brake		hydr./mech.		hydr./mech.							
	6.1	Drive motor, 60 minute rating	(kW)	2x 9		2x 9							
Drive	6.2	Lift motor rating at S3 15%	(kW)	22	22	22	22	22	22	22	22		22
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		43 536 / A		43 536 / A							
	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	80 / 460-500	80 / 460-500	80 / 460-500	80 / 560-620	80 / 560-620	80 / 560-620	80 / 575-625	80 / 575-625		80 / 575-625
	6.5	Battery weight (± 5 %)	(kg)	1210	1210	1210	1558	1558	1558	1458	1458		1458
	6.6	Power consumption according to VDI cycle	(kWh/h)	6,4	7,5	8,6	7	7,9	8,7	7,3	8,6		9,5
Others	8.1	Type of drive control		Digital/stepless		Digital/stepless							
	8.2	Operating pressure for attachments	(bar										