



Electric Counterbalance Trucks

E60 – E80

Capacity 6.0 t – 8.0 t | Series 1279

ION

PB

The electric powerhouse

- Two powerful AC drive motors efficiently handle heavy loads up to 8000 kilograms
- Linde Load Control provides precise and safe operation
- Twin pedal control enables seamless, fast reversing without repositioning the feet
- Numerous standard safety systems protect operator, environment and loads

TECHNICAL DATA (according to VDI 2198)

Characteristics	1.1	Manufacturer (abbreviation)		Linde MH	Linde MH	Linde MH	Linde MH
	1.2	Manufacturer's type designation		E60	E70	E80	E80/900
	1.2a	Series		1279-00	1279-00	1279-00	1279-00
	1.3	Drive		Battery	Battery	Battery	Battery
	1.4	Operation		Seat	Seat	Seat	Seat
	1.5	Rated capacity/rated load	Q (t)	6.0	7.0	8.0	8.0
	1.6	Load centre distance	c (mm)	600	600	600	900
	1.8	Load distance, centre of drive axle to fork	x (mm)	710	720	720	750
Weight	1.9	Wheelbase	y (mm)	2300	2300	2300	2400
	2.1	Service weight	kg	12199 [11728] ¹⁾²⁾	12958 [12723] ¹⁾²⁾	14005 [13807] ¹⁾²⁾	15782 [15808] ¹⁾²⁾
	2.2	Axle loading, laden front/rear	kg	15940/2259 [15813/1915] ¹⁾²⁾	17856/2102 [17847/1876] ¹⁾²⁾	19641/2364 [19717/2090] ¹⁾²⁾	21485/2297 [21515/2293] ¹⁾²⁾
Tyres/chassis	2.3	Axle loading, unladen front/rear	kg	6523/5676 [6396/5332] ¹⁾²⁾	6839/6119 [6830/5893] ¹⁾²⁾	7050/6955 [7126/6681] ¹⁾²⁾	7985/7797 [8015/7793] ¹⁾²⁾
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		SE	SE twin	SE twin	SE twin
	3.2	Tyre size, front		355/50-20	8.25-15	315/70-15 (300-15)	315/70-15 (300-15)
	3.3	Tyre size, rear		8.25-15	315/70-15 (300-15)	315/70-15 (300-15)	315/70-15 (300-15)
	3.5	Wheels, number front/rear (x = driven wheels)		2x/2	4x/2	4x/2	4x/2
	3.6	Tread, front	b 10 (mm)	1326	1514	1564	1564
Dimensions	3.7	Tread, rear	b 11 (mm)	1406	1396	1396	1396
	4.1	Mast/fork carriage tilt, forward/backward	/ (°)	5.0/7.5	5.0/7.5	5.0/7.5	5.0/7.5
	4.2	Mast height, lowered	h 1 (mm)	2890	2888	2888	2885
	4.3	Free lift	h 2 (mm)	150	150	150	150
	4.4	Lift	h 3 (mm)	3850	3450	3450	3050
	4.5	Mast height, extended	h 4 (mm)	4754	4545	4545	4447
	4.7	Height of overhead guard (cabin)	h 6 (mm)	2838	2838	2838	2838
	4.8	Seat height relating to SIP/stand height	h 7 (mm)	1705	1705	1705	1705
	4.12	Coupling height	h 10 (mm)	853	854	854	858
	4.19	Overall length	l 1 (mm)	4693	4703	4703	5533
	4.20	Length to fork face	l 2 (mm)	3493	3503	3503	3733
	4.21	Overall width	b 1/b 2 (mm)	1660/1616	2000/1640	2111/1654	2111/1654
	4.22	Fork dimensions DIN ISO 2331	s / e / l (mm)	60 × 130 × 1200	70 × 150 × 1200	70 × 150 × 1200	70 × 200 × 1800
	4.23	Fork carriage to ISO 2328, class/type A, B		4A	4A	4A	4A
	4.24	Fork carriage width	b 3 (mm)	1600	1800	2180	2180
	4.31	Ground clearance, laden, below mast	m 1 (mm)	228	220	220	220
	4.32	Ground clearance, centre of wheelbase	m 2 (mm)	214	210	210	210
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	A st (mm)	4910 ³⁾	4920 ³⁾	4920 ³⁾	5155 ³⁾
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	A st (mm)	5110 ³⁾	5120 ³⁾	5120 ³⁾	5355 ³⁾
Performance	4.35	Turning radius	W a (mm)	3000	3000	3000	3205
	4.36	Inside turning radius	b 13 (mm)	877	877	877	930
	5.1	Travel speed, laden/unladen	km/h	20/20 ⁴⁾	20/20 ⁴⁾	20/20 ⁴⁾	20/20 ⁴⁾
	5.2	Lifting speed, laden/unladen	m/s	0.38/0.46	0.32/0.46	0.3/0.46	0.3/0.46
	5.3	Lowering speed, laden/unladen	m/s	0.54/0.5	0.56/0.45	0.56/0.45	0.56/0.45
	5.5	Drawbar pull, laden/unladen	N	28800/29000	28700/28900	28500/28800	28000/28300
	5.6	Max. drawbar pull, laden/unladen	N	43000/43000	43000/43000	43000/43000	43000/43000
	5.7	Gradeability, laden/unladen	%	16.4/24.6	14.9/23.0	13.4/21.1	12.2/18.4
	5.8	Max. gradeability, laden/unladen	%	20.5/32.0 [21.0/33.0] ²⁾	19.5/31.0 [20.0/32.0] ²⁾	17.5/28.5 [18.0/29.5] ²⁾	16.0/25.0 [16.5/26.0] ²⁾
	5.9	Acceleration time, laden/unladen	s	5.6/5.2 [5.2/4.8] ²⁾	5.8/5.4 [5.4/5.0] ²⁾	6.3/5.9 [5.5/5.1] ²⁾	6.9/6.5 [5.9/5.5] ²⁾
Electric-engine	5.10	Service brake		hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.
	6.1	Drive motor rating S2 60 min	kW	2x 10.5	2x 10.5	2x 10.5	2x 10.5
	6.2	Lift motor rating at S3 15%	kW	2x 21	2x 21	2x 21	2x 21
	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
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah) or kWh	80/1240 [90/1440] ²⁾	80/1240 [90/1440] ²⁾	80/1240 [90/1440] ²⁾	80/1240 [90/1440] ²⁾
	6.4a	Battery energy content	(kWh)	79.36 [126.8] ²⁾	79.36 [126.8] ²⁾	79.36 [126.8] ²⁾	79.36 [126.8] ²⁾
	6.5	Battery weight (±5%)	kg	2785 [2178] ²⁾	2785 [2178] ²⁾	2785 [2178] ²⁾	2785 [2178] ²⁾
	6.6	Energy consumption according to DIN EN 16796	kWh/h	14.0 ³⁾	14.7 ³⁾	16.0 ³⁾	18.5 ³⁾
	6.6.1	CO2 equivalent according to EN 16796	(kg/h)	7.6	7.9	8.7	10
Additional data	6.7	Turnover output according to VDI 2198	t/h	361.0 [365.0] ²⁾	420.0 [443.0] ²⁾	471.0 [502.0] ²⁾	465.0 [486.0] ²⁾
	6.8	Turnover efficiency according to VDI 2198	t/kWh	21.5 [20.1] ²⁾	23.8 [23.2] ²⁾	24.5 [24.1] ²⁾	21 [20.2] ²⁾
	10.1	Operating pressure for attachments	bar	265 + 5	265 + 5	265 + 5	265 + 5
	10.2	Oil flow for attachments	l/min	85	85	85	85
	10.7	Sound pressure level LpAZ (at the operator's seat)	dB (A)	<65	<65	<65	<65

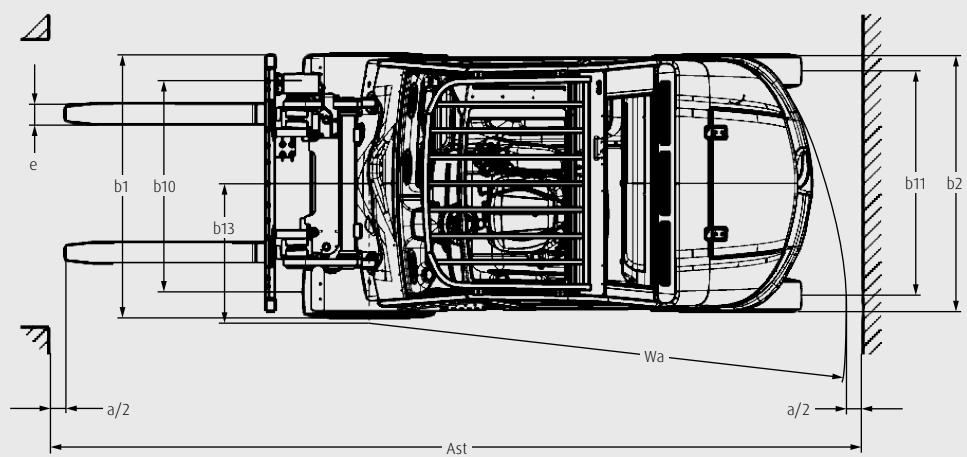
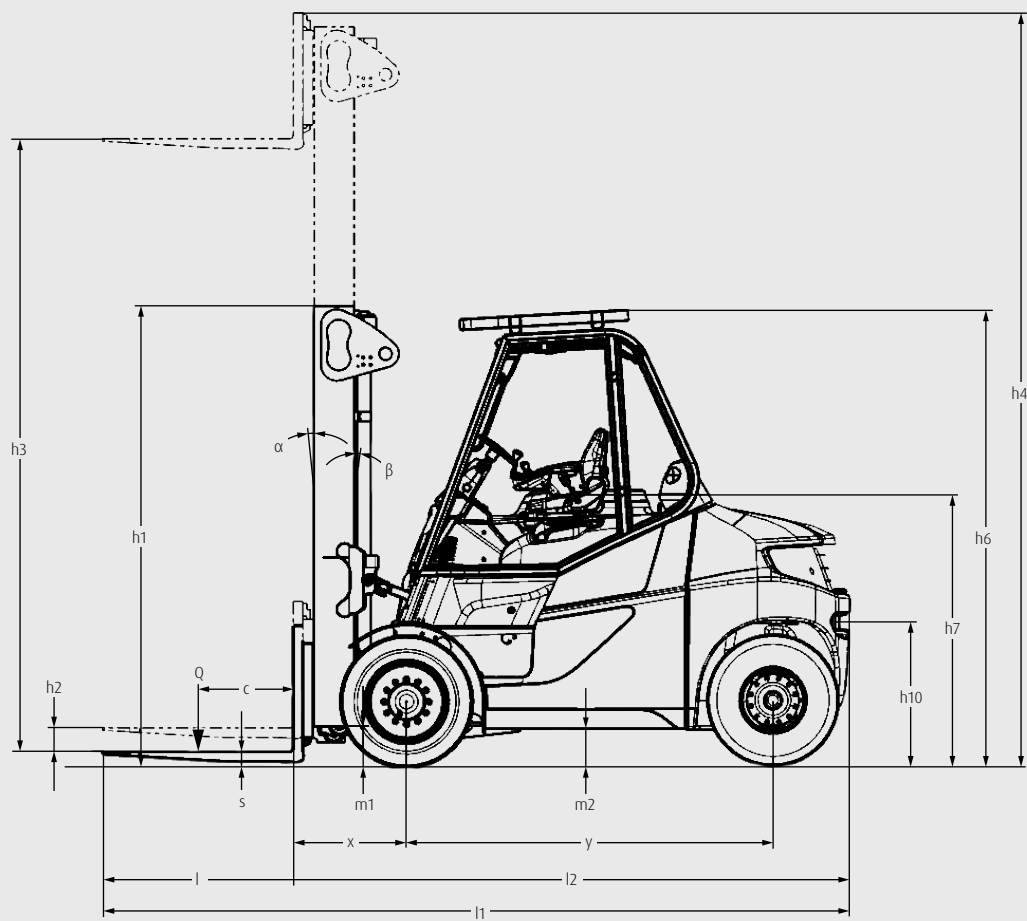
1) Figures with battery, see line 6.4/6.5.

2) Figures in [] with Li-ION battery see line 6.4

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

4) Depending on the battery technology

5) Power consumption with 45 working cycles per hour



MAST TABLES

STANDARD MAST (in mm)

Lift	h3: 3850		h3: 4150		h3: 4550		h3: 4850		h3: 5250		h3: 6050	
Height measurements	h1: 2871	h2: 150	h1: 3021	h2: 150	h1: 3221	h2: 150	h1: 3371	h2: 150	h1: 3571	h2: 150	h1: 3971	h2: 150
	h4: 4754		h4: 5054		h4: 5454		h4: 5754		h4: 6154		h4: 6954	
Manufacturer's type designation												
E60		○		○		○		○		○		○

Lift	h3: 3450		h3: 3750		h3: 4150		h3: 4450		h3: 4850		h3: 5650	
Height measurements	h1: 2863	h2: 150	h1: 3013	h2: 150	h1: 3213	h2: 150	h1: 3363	h2: 150	h1: 3563	h2: 150	h1: 3963	h2: 150
	h4: 4541		h4: 4841		h4: 5241		h4: 5541		h4: 5941		h4: 6741	
Manufacturer's type designation												
E70		○		○		○		○		○		○
E80		○		○		○		○		○		○

Lift	h3: 3050		h3: 3350		h3: 3750		h3: 4050		h3: 4450		h3: 5250	
Height measurements	h1: 2865	h2: 150	h1: 3015	h2: 150	h1: 3215	h2: 150	h1: 3365	h2: 150	h1: 3565	h2: 150	h1: 3965	h2: 150
	h4: 4444		h4: 4744		h4: 5144		h4: 5444		h4: 5844		h4: 6644	
Manufacturer's type designation												
E80/900		○		○		○		○		○		○

TRIPLEX MAST (in mm)

Lift	h3: 4405		h3: 4855		h3: 5155		h3: 5370		h3: 5455		h3: 5605	
Height measurements	h1: 2860	h2: 1405	h1: 3010	h2: 1555	h1: 2856	h2: 1705	h1: 2867	h2: 1905	h1: 3210	h2: 1755	h1: 3006	h2: 1855
	h4: 5795		h4: 6245		h4: 6241		h4: 6267		h4: 6845		h4: 6691	
Manufacturer's type designation												
E60		—		—		—		○		—		—
E70		—		—		○		—		—		○
E80		—		—		○		—		—		○
E80/900		○		○		—		—		○		—

Lift	h3: 5820		h3: 5905		h3: 6205		h3: 6420		h3: 7105		h3: 7255	
Height measurements	h1: 3017	h2: 2055	h1: 3360	h2: 1905	h1: 3206	h2: 2055	h1: 3217	h2: 2255	h1: 3760	h2: 2305	h1: 3556	h2: 2405
	h4: 6717		h4: 7295		h4: 7291		h4: 7317		h4: 8495		h4: 8341	
Manufacturer's type designation												
E60		○		—		—		○		—		—
E70		—		—		○		—		—		○
E80		—		—		○		—		—		○
E80/900		—		○		—		—		○		—

○ Optional equipment

— Not available

h1: Mast height, lowered

h2: Free lift

h3: Lift

h4: Mast height, extended

STANDARD AND OPTIONAL EQUIPMENT

Manufacturer's type designation/equipment		E60 – E80/900
Workplace	Innovative isolation of operator's compartment reduces whole body vibration	●
	Ergonomic and safe truck access thanks to low entry step and grab handle on A-pillar and bonnet	●
	Tilting and height adjustable steering column	●
	Spacious 'comfort' overhead guard for optimum head clearance	●
	Suspended operator's seat – mechanical quick weight adjustment	●
	Range of seating options, by heating, air suspension, active seat ventilation, longitudinal suspension	○
	Swivelling operator's seat	○
	Colour LED display with indicators for steering angle, tilt angle and remaining travel	●
	Top screen in armoured glass	○
	Doors with opening window and door monitoring	○
	External, internal and panoramic mirrors	○
	Illuminated DIN A4 clipboard	○
	Generous storage facilities for paperwork etc.	●
	Fully integrated heater	○
	Fully integrated air conditioning including demist function	○
	Electrical socket 12 V	○
	Radio, DAB+, MP3 player including bluetooth hands-free equipment	○
Drive and Brake System	Twin maintenance-free AC motor front wheel drive	●
	Twin maintenance-free AC motors for lift function	●
	Power settings for efficiency, economy, performance	●
	Automatic parking brake	●
	Hydraulic filter concept providing 6000 hour hydraulic-oil change interval	●
Axles and Tyre	Super Elastic (SE) tyres	●
	Closed Shoulder (CS) tyres CS 20	○
	Antistatic, non-marking tyres	○
Mast/Attachment/ Forks	Standard and triplex mast	●
	Electronically damped tilt stop	●
	Reinforced Linde forks – easy to adjust and designed for a long service life	○
	Load backrest	○
	Different hook-on and integrated attachments	○
Safety	Linde Curve Assist – automatic reduction of travel speed around corners	●
	Electric seat belt monitoring – visual and audible feedback to ensure seat belt is correctly attached	●
	Load weight indicator plus function	○
	Audible reversing alarm	○
	Linde BlueSpot and TruckSpot – visual drive path warning for pedestrians and operators	○
	Surround view – all-round camera system	○
	Speed limitations (via switch, indoor-outdoor, load dependent)	○
	Lighting: LED stripes, VertiLight	○
	Restraint systems (different options)	○
Digitalisation	Linde Safety Guard – audio-visual truck-to-truck and truck-to-pedestrians proximity warning	○
	Data transmission online	○
	Data transmission Wifi	○
	Linde connect:desk – local fleet management with different functional modules	○
	Linde connect:cloud – fleet management as a service (hosted version)	○
Operation/load Handling	Linde Truck Call App – coordination of transport jobs	○
	Twin pedal control – stepless acceleration and fast reversing	●
	Single pedal control – stepless acceleration	○
	Linde Load Control – central levers fully integrated in the armrest for precise control of all hydraulic functions	●
	Individual hydraulic lever system	○
Energy	Choice of lithium-ion or lead acid batteries	○
	Lateral battery change and hinged battery cover for daily checking of lead acid batteries	●
	Flexible charging thanks to rear charging socket	○

● Standard equipment

○ Optional equipment

CHARACTERISTICS



All-round visibility

Safety

- The protective roof protects the operator during transport of heavy goods
- The cab's frame forms a large protective zone
- Nested mast profiles allow good visibility while handling loads
- Automatic parking brake guarantees safety on ramps



Workplace

Ergonomics

- Operating controls are within easy reach of the operator for intuitive, fatigue-free operation
- Twin pedals and control levers integrated into the armrest reduce physical stress
- Adjustable seat and armrest unit provide seating comfort
- Isolated operator's compartment reduces vibrations and ensures a smooth ride



Linde Load Control

Handling

- Linde Load Control enables fast and easy control of lift mast movements
- Linde Curve Assist supports the operator on tight curves
- Driving dynamics can be individually adjusted to the exact application requirements



Easy access

Service

- Fully enclosed drive, lift and Linde electrical controls ensure the highest reliability
- Water-cooled precision parts ensure high availability even under extreme conditions
- Entire drive axle, including three-phase motors, reduction gear and oil bath brakes are maintenance-free
- Long maintenance intervals and easily accessible service parts enable uninterrupted use

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

Presented by:



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