


Linde Material Handling

Linde



Powered by
ncnielsen
Lithium-ION 

Electric Counterbalanced Trucks

E60 – E80

Capacity 6.0 – 8.0 t | Series 1279

Electric Power Pack

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

STANDARD AND OPTIONAL EQUIPMENT

Model/Equipment		E60 – E80 / 900
Workplace	Innovative decoupling concept for low human vibrations	●
	Ergonomic and space truck access due to a low entry step and handle bar at a-pillar and bonnet	●
	Tilt and height adjustable steering column	●
	Spacious overhead guard comfort for maximum head clearance	●
	Suspended Operator's seat – mechanical quick weight adjustment	●
	Various seating options such as heating, air suspension, active seat ventilation, longitudinal suspension	○
	Operators seat – Swiveling seat	○
	Coloured LED display with steering angle indicator, tilt angle indicator and remaining travel indicator	●
	Top screen armored glass	○
	Doors with openable window and door monitoring	○
	External, internal and panoramic mirror	○
	DIN A4 illuminated clipboard	○
	Generous storage facilities for writing materials etc.	●
	Fully integrated heater	○
	Fully integrated air conditioning inclusive defog function	○
	Electrical socket 12 V	○
Radio, DAB+, MP3 Player inclusive Bluetooth hands-free equipment	○	
Safety	Linde Curve Assist – automatic drive speed reduction when cornering	●
	Electrical seat belt monitoring – Visual and acoustic feedback	●
	Load weight indicator plus function	○
	Audible reversing alarm	○
	BlueSpot™ and TruckSpot – optical warning signal for pedestrians and drivers	○
	Surround View – All-round camera system	○
	Speed limitations (via switch, indoor-outdoor, load depending)	○
	Lightning: LED Stripes, VertiLight	○
	Restraint systems (different options)	○
	Linde Safety Guard – truck to truck warning and truck to pedestrian warning	○
Digitalisation	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)	○
	Truck Call App – coordination of transport orders	○
Operation/ Load Handling	Double pedal control – stepless acceleration and fast reversing	●
	Single pedal control – stepless acceleration	○
	Linde Load Control – central levers fully integrated in the armrest of precise control of all hydraulic functions	●
	Individual Lever System	○
Mast	Standard and triplex mast	●
	Electronic damped tilt stop	●
	Reinforced Linde forks – easy adjustable and long life time	○
	Load backrest	○
	Different hook-on and intercroated attachment	○
Attachement/ Forks	Standard and triplex mast	●
	Electronic damped tilt stop	●
	Reinforced Linde forks – easy adjustable and long life time	○
	Load backrest	○
	Different hook-on and intercroated attachment	○
Axles and Tyres	Super Elastic (SE) tyres	●
	Closed Shoulder Tyres CS 20	○
	Closed Shoulder Tyres CS 20	○
	Antistatic, non marking tyres	○
Drive and Brake-System	Two AC motor front wheel drive, Maintenance-free	●
	Two AC motor for lift function, Maintenance-free	●
	Power setting efficiency, economy, performance	●
	Automatic parking brake	●
	Hydraulic filter concept – realizing 6000 hour hydraulic-oil change interval	●

● Standard equipment

○ Optional equipment

– Not available

TECHNICAL DATA (According to VDI 2198)

			LINDE	LINDE	LINDE	LINDE	
			E60	E70	E80	E80/900	
Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE
	1.2	Manufacturer's type designation		E60	E70	E80	E80/900
	1.2.a	Series		1279-00	1279-00	1279-00	1279-00
	1.3	Power unit		Battery	Battery	Battery	Battery
	1.4	Operation		Seat	Seat	Seat	Seat
	1.5	Load capacity/Load	Q (t)	6.0	7.0	8.0	8.0
	1.6	Load centre distance	c (mm)	600	600	600	900
	1.8	Axle centre to fork face	x (mm)	710	720	720	750
	1.9	Wheelbase	y (mm)	2300	2300	2300	2400
Weights	2.1	Service weight	(kg)	12199 [11728] ^{1) 2)}	12958 [12723] ^{1) 2)}	14005 [13807] ^{1) 2)}	15782 [15808] ^{1) 2)}
	2.2	Axle load with load, 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)}
	2.3	Axle load without load, 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)}
Wheels / Tyres	3.1	Tyres rubber, SE, 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)		2x/2	4x/2	4x/2	4x/2
	3.6	Track width, front	b10 (mm)	1326	1514	1564	1564
	3.7	Track width, rear	b11 (mm)	1406	1396	1396	1396
	Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	5.0/7.5	5.0/7.5	5.0/7.5
4.2		Height of mast, lowered	h1 (mm)	2890	2888	2888	2885
4.3		Free lift	h2 (mm)	150	150	150	150
4.4		Lift	h3 (mm)	3850	3450	3450	3050
4.5		Height of mast, extended	h4 (mm)	4754	4545	4545	4447
4.7		Height of overhead guard (cabin)	h6 (mm)	2838	2838	2838	2838
4.8		Seat height relating to SIP/stand height	h7 (mm)	1705	1705	1705	1705
4.12		Towing coupling height	h10 (mm)	853	854	854	858
4.19		Overall length	l1 (mm)	4693	4703	4703	5533
4.20		Length to fork face	l2 (mm)	3493	3503	3503	3733
4.21		Overall width	b1/b2 (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		Width of fork carriage	b3 (mm)	1600	1800	2180	2180
4.31		Ground clearance, below mast	m1 (mm)	228	220	220	220
4.32		Ground clearance, centre of wheelbase	m2 (mm)	214	210	210	210
4.34.1		Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	4910 ³⁾	4920 ³⁾	4920 ³⁾	5155 ³⁾
4.34.2		Aisle width with pallet 800 × 1200 along forks	Ast (mm)	5110 ³⁾	5120 ³⁾	5120 ³⁾	5355 ³⁾
4.35		Turning radius	Wa (mm)	3000	3000	3000	3205
4.36	Minimum pivoting point distance	b13 (mm)	877	877	877	930	
Performance	5.1	Travel speed, with/without load	(km/h)	20/20 ⁴⁾	20/20 ⁴⁾	20/20 ⁴⁾	20/20 ⁴⁾
	5.2	Lifting speed, with/without load	(m/s)	0.38/0.46	0.32/0.46	0.3/0.46	0.3/0.46
	5.3	Lowering speed, with/without load	(m/s)	0.54/0.5	0.56/0.45	0.56/0.45	0.56/0.45
	5.5	Tractive force, with/without load	(N)	28800/29000	28700/28900	28500/28800	28000/28300
	5.6	Maximum tractive force, with/without load	(N)	43000/43000	43000/43000	43000/43000	43000/43000
	5.7	Climbing ability, with/without load	(%)	16.4/24.6	14.9/23.0	13.4/21.1	12.2/18.4
	5.8	Maximum climbing ability, with/without load	(%)	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, with/without load	(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⁾
	5.10	Service brake		hydr./mech.	hydr./mech.	hydr./mech.	hydr./mech.
	Drive	6.1	Drive motor rating S2 60 min	(kW)	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/rated capacity (5 h)	(V)/(Ah) o. kWh	80/1240 [90/1440] ²⁾	80/1240 [90/1440] ²⁾	80/1240 [90/1440] ²⁾	80/1240 [90/1440] ²⁾
6.4.a		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 ⁵⁾	14.7 ⁵⁾	16.0 ⁵⁾	18.5 ⁵⁾
6.6.1		CO2 equivalent according to EN 16796	(kg/h)	7.6	7.9	8.7	10
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⁾	
Others	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 driver's seat)	dB (A)	<65	<65	<65	<65

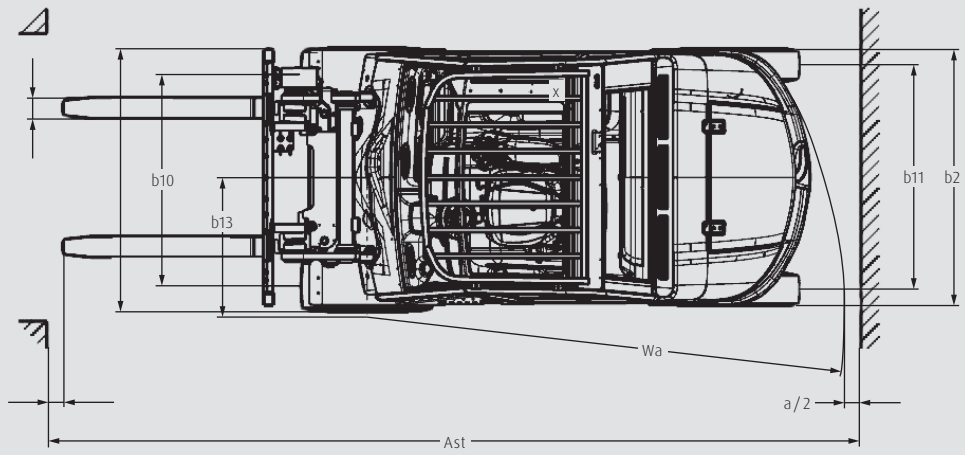
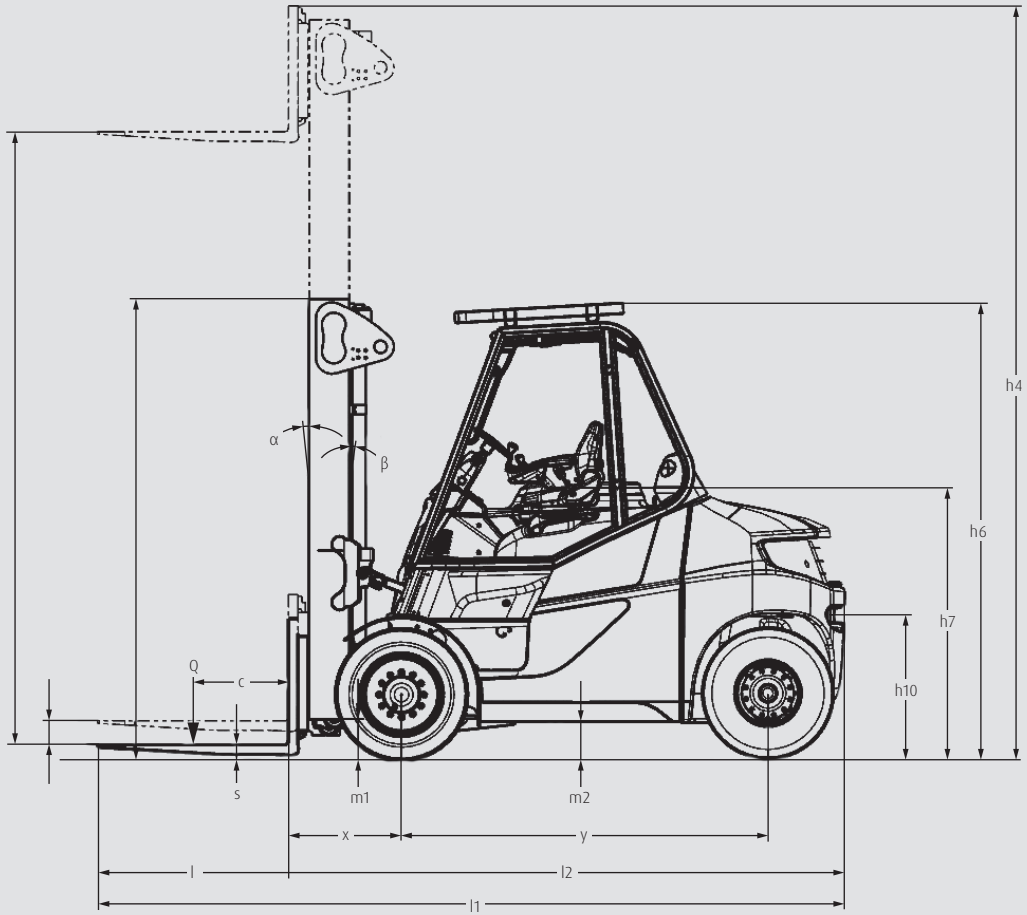
1) Figures with battery, see line 6.4/6.5.

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

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

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

Lift	h3: 3050	h3: 3350	h3: 3750	h3: 4050	h3: 4450	h3: 5250
Height measurements	h1: 2865 h2: 150 h4: 4444	h1: 3015 h2: 150 h4: 4744	h1: 3215 h2: 150 h4: 5144	h1: 3365 h2: 150 h4: 5444	h1: 3565 h2: 150 h4: 5844	h1: 3965 h2: 150 h4: 6644
Model						
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 h4: 5795	h1: 3010 h2: 1555 h4: 6245	h1: 2856 h2: 1705 h4: 6241	h1: 2867 h2: 1905 h4: 6267	h1: 3210 h2: 1755 h4: 6845	h1: 3006 h2: 1855 h4: 6691
Model						
E60	–	–	–	○	–	–
E70	–	–	○	–	–	○
E80	–	–	○	–	–	○
E80/900	○	○	–	–	○	–

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

○ Optional equipment – Not available

h1: Height of mast, lowered

h2: Free lift

h3: Lift

h4: Height of mast, extended

CHARACTERISTICS



All-round visibility

Safety

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



Driver workplace

Ergonomics

- Control components are arranged directly around the driver for intuitive, fatigue-free operation
- Double pedals and control levers, integrated into the armrest, reduce physical stress
- Adjustable seat and armrest unit provide seating comfort
- Decoupled driver'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 driver on tight curves
- Driving dynamics can be individually adjusted to the exact application requirements



Easy access

Service

- Fully encapsulated drive, lift drive, and Linde electrical control protection 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 brake 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 details could include options and not binding for actual constructions. All dimensions subject to usual tolerances.

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