

SERIES 126-01

Linde

Safety

T ly profiled heavy duty, lower steel chassis provides assured protection for the operator and components and the low centre of gravity ensures exceptional stability. Three independent braking systems deliver effective stopping power for every operational and emergency situation.

Performance

With a nominal towing capacity of 6.0 tonne and unladen traction speed of 17 km/h the P 60 Z offers flexible high performance which is optimised by the Linde digital control system that provides precise, energy saving control of acceleration and speed for safe operation and high productivity. The compact, profiled chassis ensures excellent manoeuvrability.

Comfort

A low step facilitates access to spacious operator's compartment where the automotive layout of the pedals, direction lever, steering wheel and controls, together with a fully adjustable comfort-class seat provides a comfortable and fatigue-free working environment. Integral chassis suspension ensures excellent ride characteristics.

Reliability

Linde Material Handling

The heavy guage pressed steel lower chassis section is constructed for maximum strength and durability and protects all key components. Robust top chassis section comprises exceptionally strong double-skinned, impact resistant polyethylene mouldings. The rugged drive axle and differential are designed for operation in tough and demanding applications.

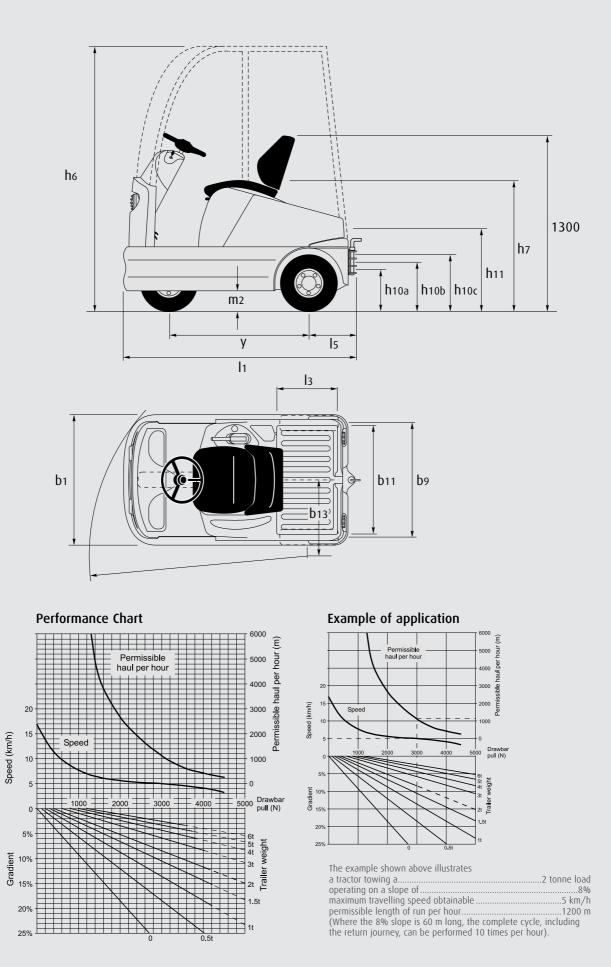
Productivity

The powerful 3.2 kW drive motor provides impressive pulling power for a variety of intensive applications including the automotive industry, and airports. The energy saving Linde digital controller combined with compact manoeuvrability and an excellent interface between the operator and tractor, translates that power into versatile, seamless performance and high productivity.

Technical data (according to VDI 2198)

	1.1	Manufacturer			LINDE	
Characteristics	1.2	Model designation			P60Z (48V)	P60Z (24V)
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power			Battery	Battery
	1.4	Operation: manual, pedestrian, stand-on, seated, order picker			Seated	Seated
	1.5	Load capacity		Q (t)	6.0 1)	6.0 ¹⁾
	1.7	Rated drawbar pull		F(N)	1200 1)	1200 1)
	1.9	Wheelbase		y (mm)	1040	1040
ght	2.1	Service weight		kg	1070	1020
Weight	2.2	Axle load without load, front/rear		kg	470/600	420/600
Wheels and tyres	3.1	Tyres, front/rear (SE = CS superelastic, P = pneumatic)			P/P 2)	P/P 2)
	3.2	Tyre size, front			4.00-8/6 PR	4.00-8/6 PR
	3.3	Tyre size, rear			4.00-8/6 PR	4.00-8/6 PR
	3.5	Wheels, number front/rear (x = driven)			1/2x	1/2x
	3.6	Track width, front		b10 (mm)	0	0
	3.7	Track width, rear		b11 (mm)	860	860
	4.7	Height of overhead guard (cabin)		h6 (mm)	1960	1960
	4.8	Height of seat/stand-on platform		h7 (mm)	890	890
	4.12	Towing coupling height		h10 (mm)	a) 290 b) 345 c) 400	a) 290 b) 345 c) 400
	4.13	PLatform height, without load		h11 (mm)	610	610
Dimensions	4.16	Loading platform, length		l3 (mm)	440	440
men	4.17	Rear overhang		l5 (mm)	345	345
Di	4.18	Loading platform, width		b9 (mm)	830	830
	4.19	Overall length		l1 (mm)	1730	1730
	4.21	Overall width		b1 (mm)	996	996
	4.32	Ground clearance, centre of wheelbase		m2 (mm)	115	115
	4.35	Turning radius		Wa (mm)	1650	1650
	4.36	Minimum pivoting point distance		b13 (mm)	600	600
Performance	5.1	Travel speed, without load		km/h	7/17	7/17
	5.5	Tractive force, without load, 60 minute rating		N	1200	1200
	5.6	Maximum tractive force, without load, 5 minute rating		N	4500	4500
	5.7	Climbing ability with/without load, 30 minute rating		0/0	See graph	See graph
	5.8	Maximum climbing ability with/without load, 5 minute rating		0/0	See graph	See graph
	5.10	Service brake			Hydraulic/electric	Hydraulic/electric
Drive	6.1	Drive motor, 60 minute rating		kW	3.2	3.2
	6.3	Battery according to Euro norm			IEC 254-2	IEC 254-2
	6.4	Battery voltage/rated capacity (5h)		V/Ah	48/330	24/550
	6.5	Battery weight	(± 0,5%)	kg	540	445
	6.6	Power consumption according to VDI cycle		kWh/h	3)	3)
Other	8.1	Type of drive control			Electronic/stepless	Electronic/stepless
	8.4	Noise level at operator's ear		dB (A)	66	66
	8.5	Tow coupling, design/type, DIN			No	No

Based on level, dry surface with rolling resistance of 200 N/t. Refer to graph opposite for specific operating conditions and when the application involves inclines or ramps.
Contoured solid (superelastic) tyres are available.
Refer to manufacturer for figures.



Load/gradient combinaisons shown by full line can be restarted from stationary on the gradient. The permissible haul per hour is the total distance travelled, including the return journey and any downhill gradients.

It is recommended that braked trailers are used for trailer loads exceeding 2.5 tonne and for all trailer loads where a gradient is involved.



Standard equipment

General

Three wheel configuration Excellent stability 48 V circuit with 12 V lighting via DC/DC converter Single pedal accelerator and direction lever Fully adjustable, PVC covered seat Pneumatic tyres 3,2 kW drive motor 3,2 kW drive motor Multi-position rear towing coupling Full road lighting Standard colour scheme - vermillion and charcoal grey

Electronics

Microprocessor based, digital, high frequency control Combined instrument indicating parking brake applied/low brake fluid level, driver alert, brush wear warning, motor temperature warning, battery dischargew and elapsed time (hour meter)

Batteries and chargers

48 V, 200 or 220 Ah 48 V, 300 or 330 Ah to IEC 24 V, 500 or 550 Ah to IEC Easy vertical lift out battery change A range of chargers is available to suit application and mains supply requirements selected

Safety

Three independant braking systems Hydraulic drum brakes on all three wheels Parking brake actuating on rear wheels Regenerative electric braking as accelerator pedal released or opposite travel direction Emergency circuit isolator Keyswitch Fail-to-safe-circuitry Traction isolated by seatswitch and handbrake Handbrake delay interlock allows gradient start without roll back Electric horn Electrical overload protection

Optional equipment

24 V circuit

Maximum travel speed inhibitor

Full cab with two lift-off side glass doors and rear hatch, front and rear screen wipers, front screen washer and demister, interior light and mirror, and two exterior mirrors Cab with roll-up fabrik sides and lower rear panel including glass front and rear screens, front and rear wipers, interior light and mirror, and two exterior mirrors

Canopy with front screen, wiper and washer

Contoured solid (superelastic) tyres - normal or non-marking Fabric covered seat - with or without heating Seat backrest extension

Multi-position towing coupling - rear or / and front Automatic towing couplings (to DIN 15170-E2):

- One rear
- One front
- One rear with extension
- Two rear with extension

Remote inching control

Flashing beacon on top of cab or on pole

Audible warning on reverse travel

Front collision detection

Features

Chassis

- → Integral full chassis suspension
- \rightarrow Exceptionally strong steel lower chassis \rightarrow High impact resistant polyethylene top
- section \rightarrow Tilting top section for easy maintenance
- and battery access



Steering

- \rightarrow Light and responsive steering
- \rightarrow Minimum steering effort
- \rightarrow Large lock-to-lock angle
- → Excellent manoeuvrability

Braking

- \rightarrow Three independent braking systems
- \rightarrow Hydraulic drum brakes on all three wheels
- \rightarrow Parking brake actuating on rear wheels
- \rightarrow Regenerative electric braking as accelerator pedal released or opposite travel direction selected
- → Superb regenerative braking control on gradients

Operator's compartment

- \rightarrow Low step access and exit
- \rightarrow Spacious leg room
- \rightarrow Fully adjustable comfort-class seat
- \rightarrow Ergonomic automotive pedal and control layout
- → Excellent all-round visibility

Tow coupling

- \rightarrow Multi-position rear towing coupling as standard
- \rightarrow Optional automatic couplings
- \rightarrow Front and rear mounting options



Controller

- \rightarrow Precise control of speed and acceleration
- \rightarrow Highly efficient energy saving system
- \rightarrow Increased number of work cycles from battery
- \rightarrow Higher productivity ratios
- \rightarrow Powerful 3.2 kW drive motor
- transversley mounted on drive axle



Batteries & chargers

- \rightarrow 48 V, up to 330 Ah
- \rightarrow 24 V, up to 550 Ah
- \rightarrow Easy vertical lift out battery change
- \rightarrow Range of chargers to suit application



Serviceability

- → Tilting seat mounting cover
- \rightarrow Easy access for maintenance and battery
- → Multi-function instrument display assists scheduled maintenance planning
- \rightarrow Low maintenance design for maximum uptime

Subject to modification in the interests of engineering progress. Illustrations and technical details non-binding for actual construction. All measurements subject to customary tolerances.

Linde Material Handling



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- \rightarrow Programmable performance parameters