

Safety

The heavy-duty steel chassis delivers a stable and rugged vehicle. Flour independent braking systems ensure effective slowing and stopping in all situations. With emergency disconnect, electronic horn, "fail-to-safe" electronic circuits, the electric system is designed to actively and passively protect the driver.

Performance

A powerful, 4.5 kW (6 hp) sealed, AC drive motor produces impressive pulling power and up to 12.5 mph (20 kmh) empty speed. The most recent version of LAC (Linde AC Digital Control) efficiently delivers high performance and smooth control and maneuverability.

Comfort

Convenient access and exit is ensured with ergonomically placed, non-slip steps and wide access openings on either side. To complete the ergonomic layout and operational envelope of the truck, it features a spacious and angled foot well, generous legroom, adjustable seat, intuitive automotive style control levers, adjustable steering wheel and an ergonomic pedal arrangement; providing an unmatched working

environment for every individual operator. Independent suspension on all wheels finalizes the engineering effort to present the best operator work place in its class.

Reliability

The rugged, heavy gauge steel chassis and impact resistant upper structures allow for maximum structural integrity and protect vital operational components. High quality electrical parts, in conjunction with a heavy-duty drive axle and differential deliver continuous, reliable performance.

Service

Quality design at all levels results in long component life and extended service intervals. Easy and unobstructed accessibility of all components is an important design standard and keeps time in-between intervals long and service effort minimal. 1000 hours between scheduled maintenance.

Technical data

June 2015

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Characteristics	1.1	Manufacturer			Linde			
	1.2	Model			P60			
	1.2.1	Series			1191			
	1.3	Power			Battery			
	1.4	Operation			Seated			
	1.5	Capacity	Q	lbs (kg)	13000 (6000)			
	1.7	Rated draw-bar pull	lbs	lbs (N)	270 (1200) 1		1	
			(N)		, , ,			
	1.9	Wheelbase	У	in (mm)	46.9 (1190)		2	
Weight	2.1	Weight		lb (kg)	2778 (3340)	1260 (1515)	3,4	
	2.3.1	Axle Load laden front		lb (kg)	1212 (1459)	550 (662)	4	
	2.3.2	Axle Load laden rear		lb (kg)	1565 (1880)	710 (853)		
Wheels and Tires	3.1	Tires (cushion, SE, pneumatic, poly)			Pneumatic			
	3.2	Tire size front			4.00-8 / 6PR			
	3.3	Tire size rear			4.00-8 / 6PR			
	3.5	Wheels number front / rear			1 / 2 x			
	3.6	Track width front	b10	in (mm)	0 (0)			
	3.7	Track width rear	b11	in (mm)			2	
Dimensions	4.7	Cabin height	h6	in (mm)	81.5 (2070) 2		2	
	4.8	Seat height	h7	in (mm)	40.1 (1020)			
	4.12	Tow pin height	h10	in (mm)	10.6 (270) 12.8	(325) 14.9 (380)	2	
	4.13	Platform height, unladen	h11	in (mm)	25.4 (645)			
	4.16	Platform Lengtrh	l3	in (mm)	20.5 (520)			
	4.17	Rear overhang	15	in (mm)	13.8 (350)			
	4.18	Loading platform, width	b9	in (mm)	35.4 (900)			
	4.19	Overall length	l1	in (mm)	72 (1830) 5			
	4.21	Overall width	b1/b2	in (mm)	39.2 (996)		6	
	4.32	Ground clearance	m2	in (mm)	5.3 (135)			
	4.35	Turning radius	Wa	in (mm)	64.9 (1650)			
	4.36	Inside turning radius	b13	in (mm)	23.6 (600)			
Performance	5.1	Travel speed laden		mp/h (km/h)	7.45 (12)			
	5.1.1	Travel speed empty		mp/h (km/h)	12.5 (20)			
	5.5	Drawbar pull		lbs (N)	270 (1200)			
	5.6	Maximum drawbar pull		lbs (N)	1010 (4500)			
	5.7	Gradeability		0/0	Contact factory			
	5.10	Service brake			Electric/Hydraulic			
Drive	6.1	Drive motor		hp (kw)	4.5 (AC)			
	6.3	Battery size information			tbd tbd			
	6.4	Battery voltage			48			
	6.5	Battery weight			tbt tbt			
0ther	8.1	Travel control			Electronic/Stepless			
	8.4	Noise level		dB (A)	60			
	Passed on level and druggerfore							

^{1.} Based on level and dry surface

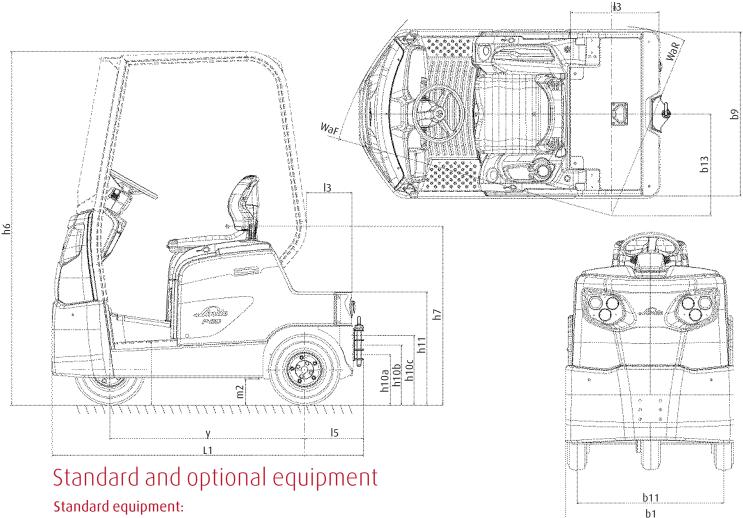
^{2. +/- 5} mm

^{3. +/- 10} kg

^{4.} in parentasis with cab

^{5. +/- 2} mm

^{6. +/- 20}mm



Standard equipment:

Standard features

Exceptional ergonomics Extremely spacious driver's compartment Power setting: Efficiency Two stage travel speed selection Generous storage compartments Auxiliary power supply socket (12 V) in dashboard Key-switch or PIN Code access All-wheel, independent suspension

General

Three wheel configuration for best maneuverability **Excellent stability** 48V electrical system Side battery exchange Single pedal travel control with directional lever Adjustable PVC covered seat Pneumatic tires 4.5 kW (6 hp) drive motor, AC, sealed Rear, multi-position, towing coupling Standard colors – vermillion and charcoal grey

Optional equipment:

Linde Curve Speed Assist System Lighting systems (bulb or LED) Deluxe seat with mechanical suspension Super Comfort seat with air suspension and heating Operator presence switch (foot switch) Adjustable performance parameters (Economy, Efficiency, Performance) Various tow hitches, front or rear mounting Metal front protection Individualized travel speed reduction Audible warning in reverse Inching control (forward & backward) on both sides at the rear chassis

Electronics

Linde high frequency AC traction controller (LAC) Sealed against the ingress of dust and water High quality, polarity proof connectors Digital interactive display indicating battery discharge status, working hours, power setting, driving direction, malfunction indicators, and further information for optional equipment utilization

Safety

Four independent braking systems:

- > Regenerative electric braking
- > Automatic, electro-magnetic, parking brake
- > Ramp hold control & start assist without roll-back
- > Self-adjusting hydraulic drum brakes on all wheels Emergency electric disconnect

"Fail-to-safe-circuitry"

Electronic horn

Electrical overload protection for motor/controller

Pedestrian traction buttons (forward traction only) on both sides of the chassis for order picking applications Front mounted utility frame, for optional equipment such as mirrors, pad holder, data terminals etc. Vertical pole at the rear for optional equipment such as beacon, bin etc.

Several modular cabin versions (sun protection, roof+screens, plus flexi doors, plus full metal doors, plus cabin heating)

Efficient and safe side changing design Various optional battery changing methods including rollers Battery roll-out adapter

Chassis

- → Heavy duty chassis
- → Rugged, impact resistant covers
- → Independent, all wheel suspension
- → Various, optional cab alternatives



Steering

- → Precision steering
- → Large lock to lock angle
- → Adjustable steering column
- → Accurate travelling and maneuvering

Braking

- → Hour independent braking systems:
- → Regenerative electric braking
- → Self-adjusting hydraulic drum brakes on all wheels
- → Automatic parking brake
- → Ramp assist (Roll-back control)

Operator's compartment

- → Exceptionally spacious and ergonomic driver's compartment
- → Slip resistant step and wide access on both sides
- → Spacious foot well and leg room
- → Automotive style intuitive control levers

Towing

- → Rear multi-position tow hitch, standard
- → Various, optional front and rear tow hitches



Controller

- → Exceptionally energy efficient Linde digital controller (LAC)
- → Smooth, precise travel control
- → Programmable performance parameters
- → 4.5 kW sealed AC drive motor



Battery

- → Efficient and safe side changing design
- → Various battery changing methods
- → Long battery life



Serviceability

- → Easy access to all key components
- → 1000 hour maintenance interval
- → Digital display assists with charging and maintenance planning
- → Diagnostic computer port (CAN bus system)

Check with dealer/factory for additional equipment availability.

