

The design of the tractor ensures that the operator remains well within the truck contours while driving. The ergonomic twin grip steering control incorporates a wrap-around hand guard and the front steel bumper ensure excellent safety for both operator and machine.

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Performance

The P30C & P50C are compact tow tractors particularly suited to towing applications in narrow aisles. Due to their compact nature the operator has direct access to the towing attachment located at the rear. They share common components and are both powered by a 3 kW AC motor. The P30C and P50C can tow 3,000kg and 5,000kg respectively.

Comfort

The unique design of the operator's compartment offers a level of comfort previously unknown in the market. In addition to an adjustable back rest and console/steering control, these tow tractor provides a unique suspended and damped "U" shape platform. This links the 3 main point of contact between operator and machine: scoop seat, platform and console and provides a superior driving experience over long travel distances or uneven floors. Electric Tow Tractor with Platform Capacity 3000 kg and 5000 kg P30C, P50C

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Reliability

Linde Material Handling

The robustness of the steering control, the strong towing mounting and the high quality steel chassis ensure reliable operation over long periods of time. Highly durable electronic components also contribute to increased truck life. Extensive testing in the heaviest applications confirm the tractors' reliability.

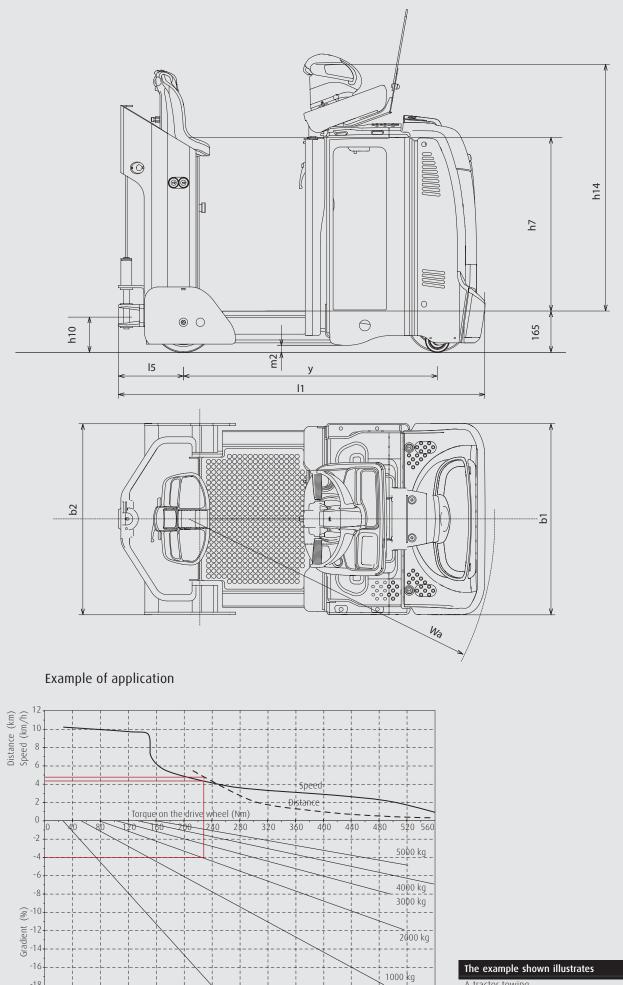
Service

Efficient in operation and highly cost effective. CAN bus connections enable all truck data to be accessed for service inspection. Service intervals of 1,000 operating hours ensure high uptime. Easy accessibility to all components and the use of maintenance free AC motors contribute to fast service times.

Technical data (according to VDI 2198)

	1.1	Manufacturer			LINDE	
Characteristics	1.2	Manufacturer's type designation			P 30C	P50C
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas			Battery	Battery
	1.4	Operator type: hand, pedestrian, stand-on, seat-on, order-picker			Stand-on	Stand-On
	1.5	Load capacity		Q (kg)	3000	5000
	1.7	Rated drawbar pull		F(N)	1800	1800
	1.9	Wheelbase	(± 5 mm)	y (mm)	1049,5 2)	1049,5 2)
Weight	2.1	Dead weight	(± 10%)	kg	940 1)	940 1)
	2.3	Axle loading, unladen front/rear	(± 10%)	kg	584 / 436 1)	584 / 436 ¹⁾
Wheels and tyres	3.1	Tyres: Solid rubber (R), Superelastic (S), Polyurethane (P)			R + R	R + R
	3.2	Tyre size, front		Øx1mm	Ø 254 x 102	Ø 254 x 102
	3.3	Tyre size, rear		Øx1mm	2x Ø 250 x 80	2x Ø 250 x 80
	3.4	Auxiliary wheels size		Øx1mm	2xØ100x40	2xØ100x40
	3.5	Wheels, number front/rear (x = driven)			1x+2/2	1x+2/2
	3.6	Track width, front	(mm)		544	544
	3.7	Track width, rear	(mm)		675	675
	4.8	Height of backrest, min/max		h7 (mm)	710/910 4)	710/910 4)
	4.9	Tiller height, travel position, min/max		h14 (mm)	1020/1120	1020/1120
	4.12	Tow coupling height: Single position, 3 positions		h10 (mm)	300, 290/345/400	300, 290/345/40
sion	4.19	Overall length	(± 5 mm)	l1 (mm)	1500 ³⁾	1500 ³⁾
Dimensions	4.21	Overall width	(± 5 mm)	b1/b2 (mm)	790/-	790/-
Di	4.32	Ground clearance, centre wheelbase	(mini)	m2 (mm)	40	40
	4.35	Turning radius	(mini)	Wa (mm)	1230	1230
	4.36	Minimum pivoting point distance		b13 (mm)		
	5.1	Travel speed, with/without load	(± 5%)	km/h	10/10	8/8
	5.5	Drawbar pull with/without load (60 minutes rating)		N	1800	1800
nce	5.6	Maximum drawbar pull with/without load (5 minutes rating)		N	4000	4000
orma	5.7	Climbing ability with/without load (30 minutes rating)		0/0	5/24	< 3/24
Performance	5.8	Maximum climbing ability with/without load (5 minutes rating)		0/0	8/24	5/24
	5.9	Acceleration, with/without load	(sur 10 m)	S	6.74/4.58	6.55/4.58
	5.10	Service brake			Electromagnetic	Electromagnetic
Drive	6.1	Drive motor rating S2 60 min		kW	3	3
	6.3	Battery according to IEC			Spécial case ⁵⁾	Spécial case ⁵⁾
	6.4	Battery voltage/rated capacity (5h)		V/Ah	24/375	24/375
	6.5	Battery weight	(± 10%)	kg	295 ¹⁾	295 ¹⁾
	6.6	Power consumption according to Linde cycle		kW	2.348/3.407	2.348/3.407
Other	8.1	Drive control			LAC	LAC
	8.4	Sound level at the driver's ear according to DIN 12053		dB (A)	< 70	< 70
	8.5	Tow coupling, design/type, DIN Standard			-	-

With battery item 6.5
with battery compartment 3 PzS side removal (+100 mm for 3 PzS vertical and 4 PzS side removal; +150 mm for 4 PzS vertical removal; +225 mm for 5 PzS vertical removal)
+10mm with hook
100mm clearance (through a height adjustment handle) + 100mm (through a fixed adjustment behind the seat)
Special case for side battery change - DIN 43535 B for all vertical battery change



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-24-

me exemple shown mastrates						
A tractor towing	2 t load					
Operating on a ramp of	4 %					
Maximum travelling speed reachable	4,3 km/h					
Length of ramp	4,9 km					



Equipment

Standard equipment

Safe, comfortable operator compartment with unique "U" shaped platform linking: scoop seat, platform and console Power assisted steering with variable steering resistance Positive steering (drive wheel) feedback Automatic and adjustable speed reduction when cornering 3 kW AC motor (maintenance free) Automatic electric braking Electromagnetic emergency brake Key switch or log-in PIN code Dedicated work station (with storage compartments) Removable storage compartment/bin under scoop seat Fixed front clipboard Adjustable scoop seat Adjustable console and twin grip steering control CAN bus technology Multifunction backlit instrument display: Safety alarm, maintenance check indicator, battery charge level, hour meter Cushion rubber drive and load wheels Single position hook (300mm) or supplied with 4 mounting bolts for local fitting of towing device Vertical battery change (3 or 4 PzS) Horn Protection to -10°C

Optional equipment

Manually operated hook with pull cable (300mm) or 3 position tow hook 290/345/400mm Towing attachment control (Forward/backward) Removable storage compartment/locker under the scoop seat Support for data terminal, clipboard and barcode reader (Pack n°2) Front and rear working lights (LED) Flashing beacon Polyurethane drive wheel & cushion rubber load wheels Non-marking cushion rubber drive & load wheels Wet grip drive wheel & cushion load wheels Vertical battery change 5 PzS Side battery change (3 or 4 PzS) Fixed battery stand for side battery change (1 or 2 batteries)

Other options available on request

Features

Ultimate driving feeling

- \rightarrow The unique "U" shaped operator's compartment links : console - platform scoop seat
 - It is fully suspended leading to an exceptional driving feel
- \rightarrow Adjustable seat, console and steering control
- \rightarrow Ergonomic, robust chassis with enclosed and protected load wheels
- \rightarrow Wide platform access
- \rightarrow Low stepping height

Storage / Equipments

- \rightarrow Standard removable compartment /bin under scoop seat with front and top access (Locker as an option)
- \rightarrow Wide storage compartment to store gloves, documents...
- \rightarrow Storage compartment on the console to store pencils, adhesive tape ...
- \rightarrow Wide compartments under the console for wrapping paper...



Tow Hook options

- → Different hooks available: Single position, 3 positions and manually operated hook with pull cable operated without leaving the work station
- \rightarrow Optional inching control on both sides enables easy and safe operation (Forward/backward)



Power steering

- \rightarrow Proportional, self centring, power-assisted steering for effortless, precise operation
- → Adjustable steering resistance and positive steering feedback ensures the truck is always on track
- → Automatic speed reduction when cornering



AC Motor

- \rightarrow Powerful, smooth 3kW at 100% performance
- \rightarrow Moisture and dust-proof motor, maintenance-free
- \rightarrow No rollback on uphill starting
- \rightarrow Maximum speed of 10km/h, whether the truck is laden or unladen (8km/h for P50C)

Console and Linde twin grip steering control

- \rightarrow Ergonomically designed console incorporates steering control, clipboard, emergency isolator CAN bus plug and Linde Digital Information Display (hourmeter, battery discharge indicator, warning and information display)
- \rightarrow Adjustable in height, the console provide controls and instrumentation all within easy reach
- \rightarrow All main control functions integrated into one handle for operation by both or either hand
- \rightarrow Optimum protection for both hands

CAN bus connectivity

- → Intelligent electronic management of all components for rapid and easy diagnosis
- \rightarrow All performance parameters can be accurately adjusted by the service technician to suit each individual application



A battery for every need

- \rightarrow Vertical battery change as standard (3 and 4PzS)
- \rightarrow Wide range of batteries from 375 Ah (3PzS) to 620 Ah (5PzS)
- \rightarrow Battery locking system for side change option secures battery in compartment and eases battery changing



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

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