

Standard and optional equipment

Standard equipment

Multi-function back lit display	AC maintenance-free drive motor
Key switch	Automatic braking
Operator compartment with cushioned stand-on platform	Electromagnetic emergency brake acting proportionally to the towed load
Ergonomic work station with generous storage compartments	Cushion rubber drive wheel
Removable clipboard	Single position towing coupling (300 mm high)
Adjustable backrest	Horn
Power assisted, progressive electric steering	Suitable for operation down to –10°C
Self-centring steering	Standard colour scheme vermillion and charcoal grey
Automatic speed reduction when cornering	

Options

Drive wheel: polyurethane or non-marking or wet grip cushion rubber	Data terminal or barcode reader
Alternative towing coupling systems (mechanical and electrical)	Front working light
Remote stand-off inching control	Flashing beacon
Adjustable Linde twin-grip steering control	Rear lights
Front mounting for computer terminal	Fixed battery stand for side battery change
Accessories pole	Cold store protection to –35°C
	Alternative colour schemes
	Other options available on request

Introduction

The compact P 30 stand-on tow tractor is designed to undertake versatile and highly efficient multiple load transfer duties in a wide variety of applications where space is at a premium. It is also effective as an integral link in busy manufacturing and distribution supply chains.

Performance

A 3 kW AC maintenance-free motor provides seamless acceleration to 10 km/h and, with a nominal towing capacity of 3000 kg combined with highly effective braking, the P 30 is ideal for continuous operation in intensive applications.

Comfort

The cushioned stand on platform has a non-slip surface and, together with an adjustable backrest, provides the

operator with excellent levels of comfort over long distances or on less than perfect floor surfaces.

Reliability

The rugged chassis design, together with advanced industrial quality electronics, unique Linde twin-grip steering system and heavy duty towing coupling, ensures consistent reliability and an extended working life.

Service

Operating costs are reduced and maximum uptime and efficiency is achieved by a combination of quality components and easy service access. In addition, CAN bus diagnostic technology provides an instant read out of the truck status. A maintenance-free drive system also contributes to lower costs. The P 30 is able to operate for up to 1000 hours between services for maximum productivity ratios.



Electric Stand-on Tow Tractor
Capacity 3000 kg
P 30

SERIES 132

Linde Material Handling

Features

Safety

- Twin-grip steering protected by hand guards
- 4 mm steel plate on chassis front
- Electrical and hydraulic overload protection
- Emergency circuit isolator
- Automatic electric braking when traction control released to neutral
- Reverse electrical braking
- Deadman soft stop when stand-on platform is vacated
- Electromagnetic braking actuated by emergency stop button



Towing couplings

- Standard single position towng coupling
- Optional automatic coupling actuated from the work station
- Optional three position mechanical towing coupling

Batteries and battery changing

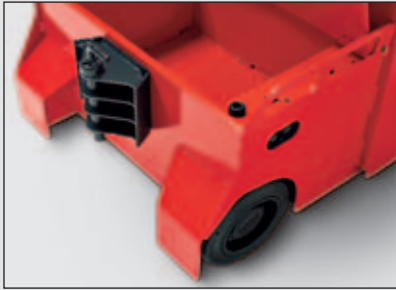
- Vertical battery change as standard
- Choice of capacities from 270 Ah to 620 Ah
- Optional battery changing from the side with locking system

Linde twin-grip steering

- Unique ergonomic steering system
- Minimum steering effort for excellent manoeuvrability
- Dual traction controls for use by either hand
- Optional twin-grip height adjustment
- Profiled hand protectors

CAN bus technology

- Intelligent CAN bus electronic management system enables rapid diagnosis and provides instant read out of truck status
- All performance parameters can easily be configured to match individual applications



Intuitive work station

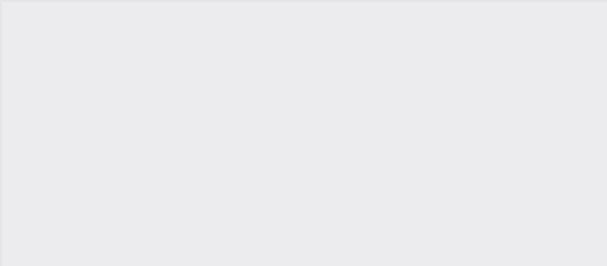
- Digital multi-function display
- All controls grouped for ease of use
- Cushioned stand-on platform
- Adjustable backrest
- Remote inching controls on either side simplify trailer coupling
- Generous storage compartments
- Easy access to operator's compartment from either side

Powerful AC maintenance-free drive

- Powerful 3 kW AC drive motor
- Sealed from moisture and dust ingress
- No roll-back on hill start
- Seamless acceleration to 10 km/h, laden or unladen
- Maximum drawbar pull 420 daN

Electric power steering

- Effortless power assisted steering
- Automatic self-centring
- Adjustable steering torque feedback
- Automatic speed reduction when cornering
- Steering torque adjusts according to turning angle



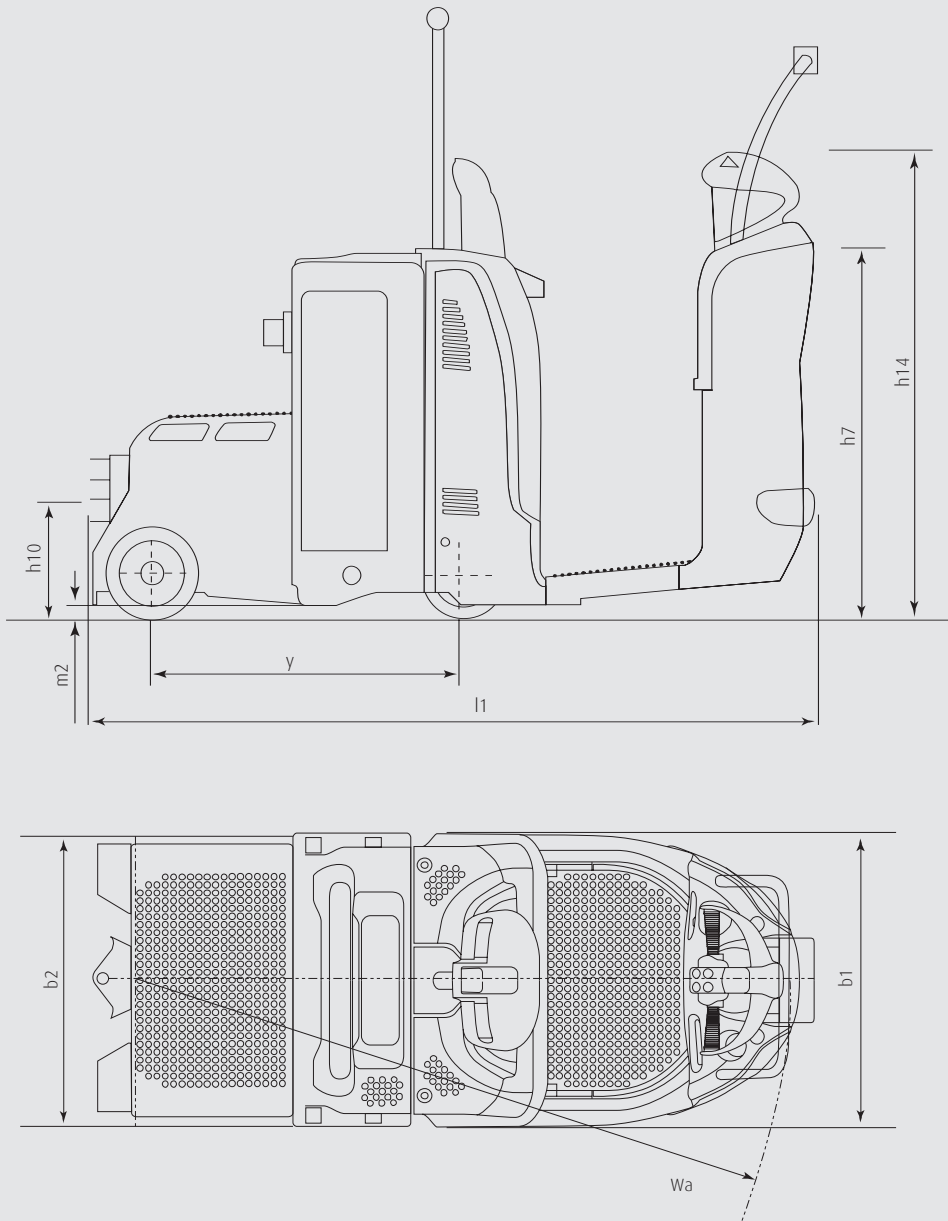
Linde Material Handling (UK) Ltd
Kingsclere Road, Basingstoke, Hampshire RG21 6XJ
Tel +44(0)1256 342000, Fax +44(0)1256 342923, www.linde-mh.co.uk, enquiries@linde-mh.co.uk

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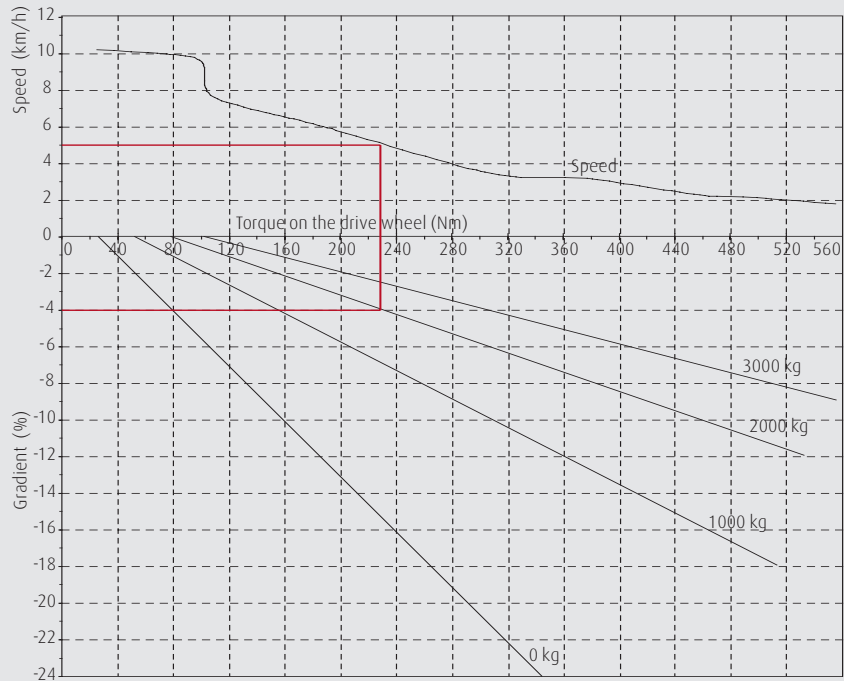
Technical data

Characteristics	1.1	Manufacturer		LINDE
	1.2	Model designation		P30
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Battery
	1.4	Operation: manual, pedestrian, stand-on, seated, order picker		Stand-on
	1.5	Load capacity	Q (kg)	3000
	1.7	Rated drawbar pull	F (N)	1800
Weights	1.9	Wheelbase	y (mm)	910 ¹⁾
	2.1	Service weight	kg	1005 ¹⁾
	2.3	Axle load without load, front (drive)/rear (load)	kg	705/300 ¹⁾
Wheels/Tyres	3.1	Tyres, front (drive)/rear (load) C=cushion rubber, P=polyurethane		C + P/P
	3.2	Tyre size, front (drive)	mm	Ø 254 x 102
	3.3	Tyre size, rear (load)	mm	Ø 250 x 80
	3.4	Auxiliary wheels (dimensions)	mm	Ø 100 x 40
	3.5	Wheels, number front (drive)/rear (load) (x = driven)		1x+2/2
	3.6	Track width, front (drive)	b10 (mm)	544
	3.7	Track width, rear (load)	b11 (mm)	650
Dimensions	4.8	Height of backrest, min/max	h7 (mm)	766/866
	4.9	Control handle height, travel position, minimum/maximum	h14 (mm)	1030/1080
	4.12	Towing coupling height: single position, three position	h10 (mm)	300, 290/345/400
	4.19	Overall length	l1 (mm)	1900 ¹⁾
	4.21	Overall width	b1/b2 (mm)	790/736
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30
Performance	4.35	Turning radius	Wa (mm)	1740 ¹⁾
	4.36	Minimum pivot point distance	b13 (mm)	1460 ¹⁾
	5.1	Travel speed, with/without rated drawbar pull	km/h	10/10
	5.5	Drawbar pull, 60 minute rating	N	1800
	5.6	Maximum drawbar pull, 5 minute rating	N	4200
	5.7	Climbing ability with/without load, 30 minute rating	%	See graph
Drive	5.8	Maximum climbing ability with/without load, 5 minute rating	%	See graph
	5.9	Acceleration, with/without load (first 10m)	s	7.3/5
	5.10	Service brake		Electromagnetic/electric
	6.1	Drive motor, 60 minute rating	kW	3
Other	6.3	Battery to DIN		435358
	6.4	Battery voltage/rated capacity (5h)	V/Ah	24/500
	6.5	Battery weight (± 5 %)	kg	381
	6.6	Power consumption to VDI cycle	Ah	-
	8.1	Type of drive control		LAC controller
	8.4	Noise level at operator's ear	dB (A)	< 70
	8.5	Towing coupling, design/type		-

¹⁾ With a 4PzS lateral or 3PzS vertical battery (minus 100 mm for 3PzS lateral)



Example of application



The example shown illustrates	
A tractor towing	2t load
Operating on a ramp of	4 %
Maximum travel speed	5 km/h

