



## Tow Tractors

# P40-P60 C | P40 C B

Capacity 4.0 t - 6.0 t | Series 4595

PB ION H<sub>2</sub>

### Dynamic tower

- High manoeuvrability facilitates use in confined spaces
- Powerful motor ensures high tractive power and top speed
- Large selection of trailer couplings for different trailer types
- Special vehicle design allows optimum visibility of trailer and load
- Suspended operator's platform protects against shocks and vibrations
- Height-adjustable Linde steering wheel provides intuitive and precise control

# TECHNICAL DATA (according to VDI 2198)

Characteristics	1.1	Manufacturer (abbreviation)		Linde MH	Linde MH	Linde MH
	1.2	<b>Manufacturer's type designation</b>	<b>P40 C B</b>	<b>P40 C</b>	<b>P60 C</b>	
	1.2a	Series	4595-00	4595-00	4595-00	
	1.3	Drive	Battery	Battery	Battery	
	1.4	Operation	Stand on	Stand on	Stand on	
	1.5	Rated capacity/rated load	Q (t)	4.0	4.0	6.0
	1.7	Rated drawbar pull	F (N)	800	800	1200
	1.9	Wheelbase	y (mm)	1032 <sup>1)</sup> <sup>2)</sup>	1032 <sup>1)</sup> <sup>2)</sup>	1032 <sup>1)</sup> <sup>2)</sup>
	2.1	Service weight	kg	1009 <sup>3)</sup>	1014 <sup>3)</sup>	1014 <sup>3)</sup>
	2.3	Axle loading, unladen front/rear	kg	566/443 <sup>3)</sup>	571/443 <sup>3)</sup>	571/443 <sup>3)</sup>
Tyres/chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane	Polyurethane
	3.2	Tyre size, front		Ø 230 × 90	Ø 254 × 102	Ø 254 × 102
	3.3	Tyre size, rear		Ø 250 × 80	Ø 250 × 80	Ø 250 × 80
	3.4	Auxiliary wheels (dimensions)		Ø 100 × 40	Ø 100 × 40	Ø 100 × 40
	3.5	Wheels, number front/rear (x = driven wheels)		1x + 2/2	1x + 2/2	1x + 2/2
	3.6	Tread, front	b10 (mm)	580 <sup>2)</sup>	580 <sup>2)</sup>	580 <sup>2)</sup>
	3.7	Tread, rear	b11 (mm)	654 <sup>2)</sup>	654 <sup>2)</sup>	654 <sup>2)</sup>
Dimensions	4.8	Seat height relating to SIP/stand height	h7 (mm)	130 // 918/1058 <sup>4)</sup> <sup>5)</sup>	130 // 918/1058 <sup>4)</sup> <sup>5)</sup>	130 // 918/1058 <sup>4)</sup> <sup>5)</sup>
	4.9	Height drawbar in driving position min./max.	h14 (mm)	1258 <sup>4)</sup> <sup>6)</sup>	1258 <sup>4)</sup> <sup>6)</sup>	1258 <sup>4)</sup> <sup>6)</sup>
	4.12	Coupling height	h10 (mm)	210/265/320 <sup>7)</sup>	210/265/320 <sup>7)</sup>	210/265/320 <sup>7)</sup>
	4.17	Overhang	l5 (mm)	200/260 <sup>8)</sup>	200/260 <sup>8)</sup>	200/260 <sup>8)</sup>
	4.19	Overall length	l1 (mm)	1416/1476 <sup>1)</sup> <sup>2)</sup> <sup>8)</sup>	1416/1476 <sup>1)</sup> <sup>2)</sup> <sup>8)</sup>	1416/1476 <sup>1)</sup> <sup>2)</sup> <sup>8)</sup>
	4.21	Overall width	b1/b2 (mm)	800 <sup>2)</sup>	800 <sup>2)</sup>	800 <sup>2)</sup>
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	50 <sup>4)</sup>	50 <sup>4)</sup>	50 <sup>4)</sup>
Performance data	4.35	Turning radius	Wa (mm)	1229	1229	1229
	5.1	Travel speed, laden/unladen	km/h	8/10 <sup>9)</sup>	8/13 <sup>9)</sup>	8/13 <sup>9)</sup>
	5.1.1	Travel speed, laden/unladen, backwards	km/h	6/6 <sup>9)</sup>	6/6 <sup>9)</sup>	6/7 <sup>9)</sup>
	5.5	Drawbar pull, laden/unladen	N	800	800	1200
	5.6	Max. drawbar pull, laden/unladen	N	3040	3400	3400
	5.8	Max. gradeability, laden/unladen	%	see performance graph	see performance graph	see performance graph
	5.9	Acceleration time, laden/unladen	s	7.4/5.0	7.4/5.0	8.2/5.0
Electric-engine	5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min	kW	2.3	3	3
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		no	no	no
	6.4	Battery voltage/nominal capacity K 5	(V)/(Ah) o. kWh	24/360/465	24/360/465	24/360/465
	6.5	Battery weight (±5%)	kg	402	402	402
	6.6	Energy consumption according to DIN EN 16796	kWh/h	0.96	1.4	1.51
	6.6.1	CO <sub>2</sub> equivalent according to DIN EN 16796	kg/h	0.52	0.76	0.82
Drive/lifting mechanism	6.7	Turnover output according to VDI 2198	t/h	312.0	380.0	540.0
	6.8	Turnover efficiency according to VDI 2198	t/kWh	95	162	145
Drive/lifting mechanism	8.1	Type of drive unit		AC control	AC control	AC control

1) With tray 4 PzS + 114 mm

2) (±5 mm)

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

4) With optional ground clearance +50 mm → m2=100 mm

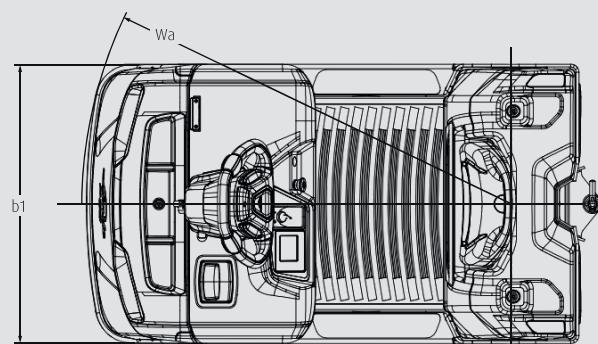
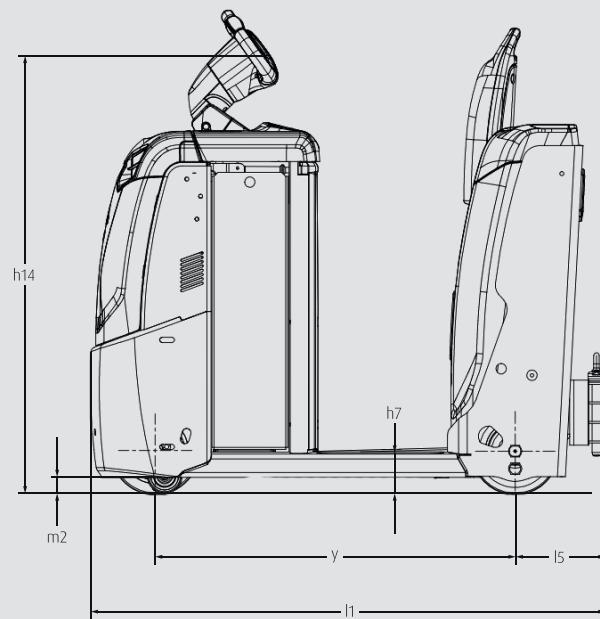
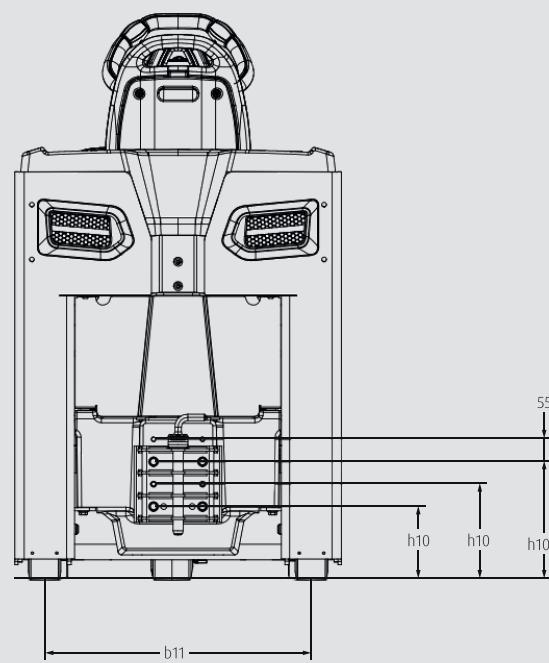
5) // with optional equipment fully suspended operator compartment only

6) h14 adjustment from -19 mm to +89 mm with adjustable tiller option.

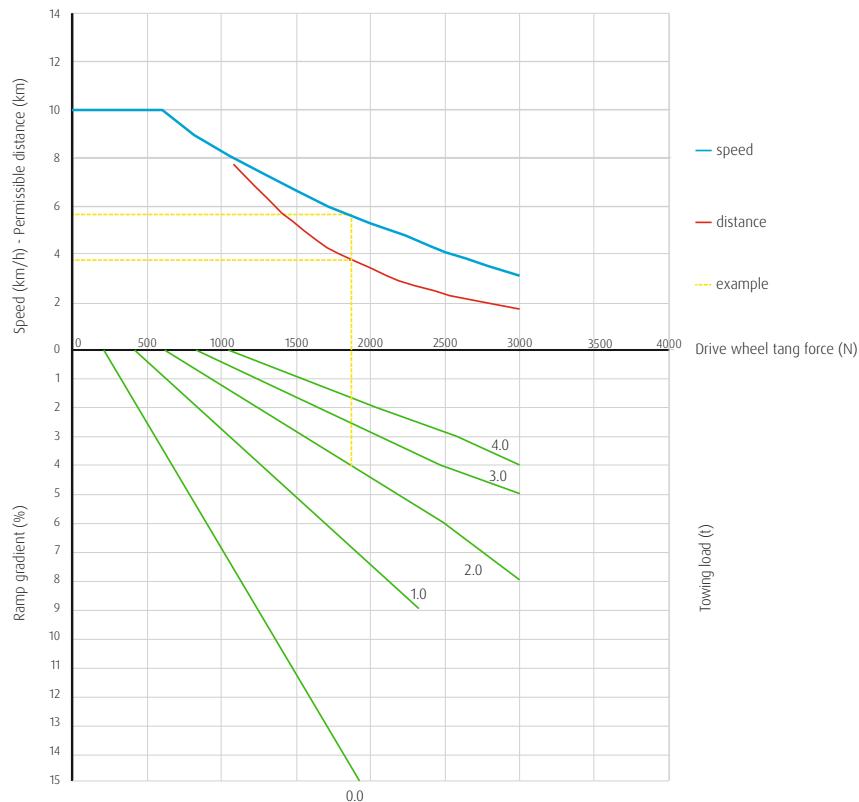
7) With single level coupling

8) Without coupling/with single level coupling

(±5%)



# TOW DIAGRAM



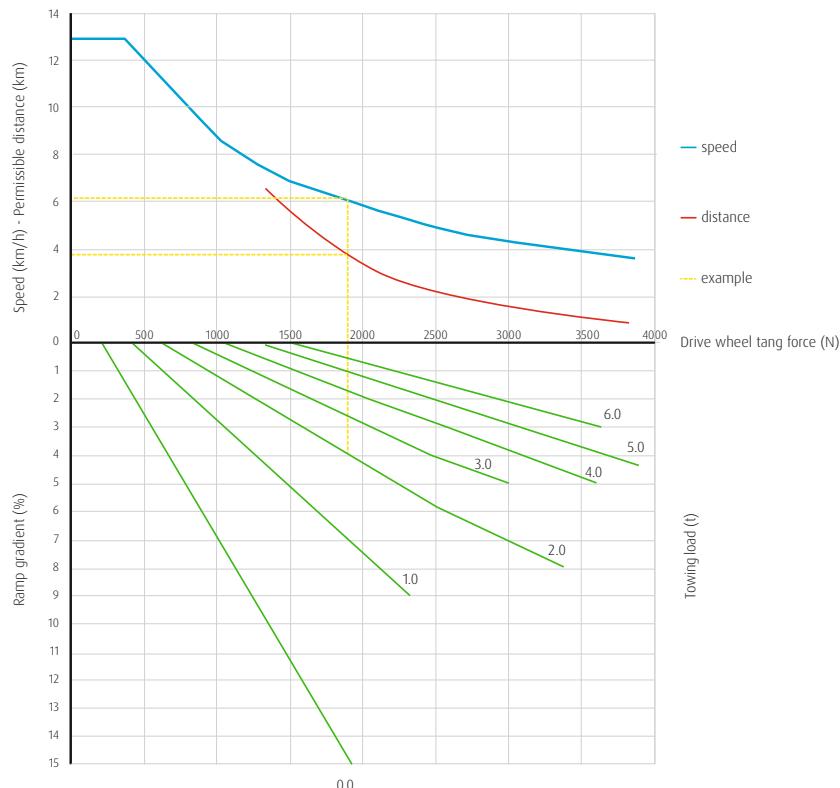
## P40 C B

The example illustrates

A tractor towing  
operating on a ramp of  
maximum travelling speed attainable  
length of ramp

2 t	2 t
4%	4%
5.7 km/h	5.7 km/h
3.9 km	3.9 km

It is recommended that braked trailers are used when  
the trailer weight is more than 2.5 t and for all trailer  
loads when driving on upward/downward inclines.



## P40 - P60 C

The example illustrates

A tractor towing  
operating on a ramp of  
maximum travelling speed attainable  
length of ramp

2 t	2 t
4%	4%
6.2 km/h	6.2 km/h
3.8 km	3.8 km

It is recommended that braked trailers are used when  
the trailer weight is more than 2.5 t and for all trailer  
loads when driving on upward/downward inclines.



The diagram refers to performance with lead-acid or KBS Li-ION batteries. For different batteries and any different combination of forces and travel time/distances, please contact your sales representative

# STANDARD AND OPTIONAL EQUIPMENT

Manufacturer's type designation/equipment		P40 C B	P40 C	P60 C
Safety	Front anti-collision protection – rubber bumper low-mounted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Front collision protection – steel panel high-mounted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Front collision protection – steel panel high-mounted, rubber bumper low-mounted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Front collision protection – steel panel covering front of tractor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Front collision protection – steel panel covering front of tractor with 3 position trailer coupling (max. towing capacity: 1 tonne)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Rear foot protection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Key switch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	PIN code access (in place of key switch)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Audible sound warning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Linde BlueSpot – front-facing driving path warning light	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Working lamp – front and rear LED lights	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Front and rear LED lights	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Complete lighting package (including front and rear LED, direction indicators, working, brake and reversing lights)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Service	CAN bus architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Data transmission online	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Data transmission Wifi	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Linde connect:desk – local fleet management with different functional modules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Linde connect:cloud – fleet management as a service (hosted version)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	dt: trouble codes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operation/load handling	Bluetooth USB stick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Ground clearance (h = 50 mm)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Ground clearance (h = 100 mm)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Inching control (forward/backward)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Operator's cabin (available upon request)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Workplace	Operator's platform with cushioned floor mat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Fully suspended operator's compartment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Knee protection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Adjustable backrest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Adjustable backrest with with folding seat support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Height adjustable Linde steering wheel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Dashboard with storage compartment (without A4 clipboard)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Multifunction colour display: hourmeter, maintenance indication, battery discharge indicator and internal fault code indication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Front accessory support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Rear accessory support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Attachment/forks	Front panoramic and rear side mirrors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Radio data terminal mounting and power supply cable 24 V	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Support for scanner and clipboard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Shrink wrap holder	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Electrical socket 12 V or USB	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Hook 3 position tow pin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Hook single position tow pin with cable release from operator's position	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Axles and tyres	Rockinger 244D automatic towing hitch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	LKE towing arm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Logistic Train Modification (includes remote control, 36 V electrical preparation, attaching socket at the rear and coupling ball and ball hitch for hooking)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Drive wheel Heavy duty	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drive and brake-system	Drive wheel High grip	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Load wheels polyurethane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Load wheels cushion rubber, non marking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Tandem castor wheels	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Battery compartment, vertical change 3 PzS (300 Ah/375 Ah) and 4 PzS (480 Ah/620 Ah)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Battery compartment, lateral change 3 PzS (300 Ah/375 Ah) and 4 PzS (400 Ah/500 Ah), incl. ergonomic locking lever and metal rollers		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Battery compartment, lateral change high 3 PzS (360 Ah/465 Ah) and 4 PzS (480 Ah/620 Ah)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lithium-ion technology – choice of battery capacities and optional side plug for easy opportunity charging		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compatibility kit for competitor batteries		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lead-acid on-board charger 60 A		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lithium-ion on-board charger 35 A		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

● Standard equipment

○ Optional equipment

– Not available

# CHARACTERISTICS



Linde BlueSpot and lighting package



Comfortable operator compartment



Intuitive Linde steering wheel



Robust chassis

## Safety

- The body and limbs of the operator are always protected within the vehicle contours
- Rugged bumper for collision protection
- Vehicle automatically reduces speed when cornering
- Access control prevents unauthorised access to the vehicle
- Comprehensive, optional lighting systems improve operator visibility and vehicle visibility

## Ergonomics

- Adjustable backrest, folding seat and plenty of legroom for fatigue-free work
- Individually adjustable Linde steering wheel with intuitive controls ensures maximum operator comfort and precise control of the tractor
- Full-suspended platform protects the operator from shocks and vibrations
- Wide entry with low step height reduces operator fatigue
- Spacious bins enable storage of work utensils

## Handling

- Powerful, low-maintenance motor for high tractive effort and speed
- Good visibility of trailers and load facilitates load transport
- Large selection of trailer couplings for different trailer types
- Short turning radius supports manoeuvring in confined spaces
- In addition to lead-acid batteries, lithium-ion batteries are optionally available

## Service

- Low maintenance design for high vehicle availability
- Lubrication of the drive wheel only necessary after 10000 operating hours
- Easy access to all major components simplifies maintenance
- Clear cable routing reduces maintenance time

Presented by:

Subject to modification in the interest of progress. Illustrations and technical details could include options and are not binding for actual constructions. All dimensions subject to usual tolerances.



**Linde Material Handling GmbH**  
Carl-von-Linde-Platz | 63743 Aschaffenburg | Germany  
Phone + 49 6021 99 0 | Fax + 49 6021 99 1570  
[www.linde-mh.com](http://www.linde-mh.com) | [info@linde-mh.com](mailto:info@linde-mh.com)  
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