Linde Material Handling

Tow Tractors

P40–P60 C | P40 C B

Capacity 4.0 t – 6.0 t | Series 4595

PB ION H2

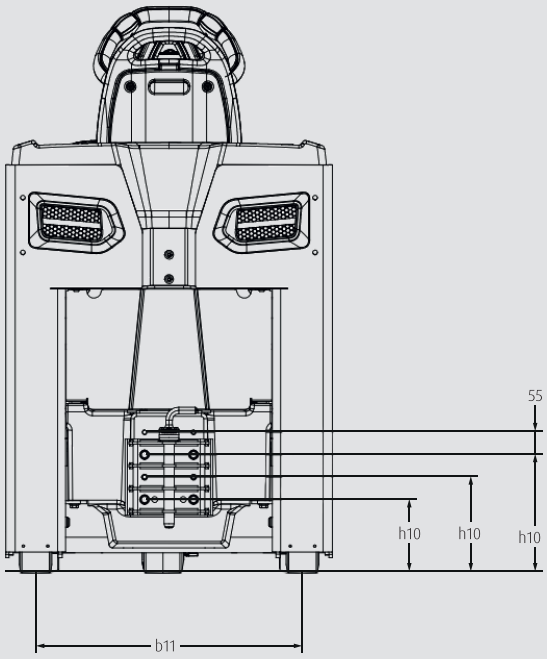
Dynamic tower

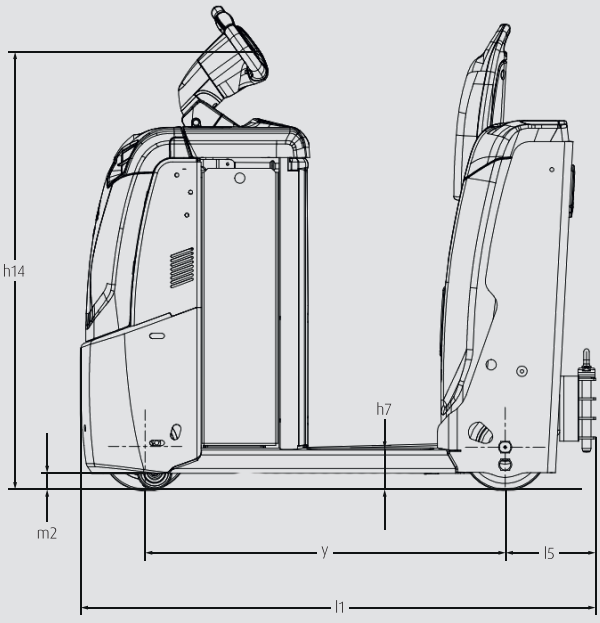
- → High manoeuvrability facilitates use in confined spaces
- → Powerful motor ensures high tractive power and top speed
- → Large selection of trailer couplings for different trailer types
- → Special vehicle design allows optimum visibility of trailer and load
- → Suspended operator's platform protects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

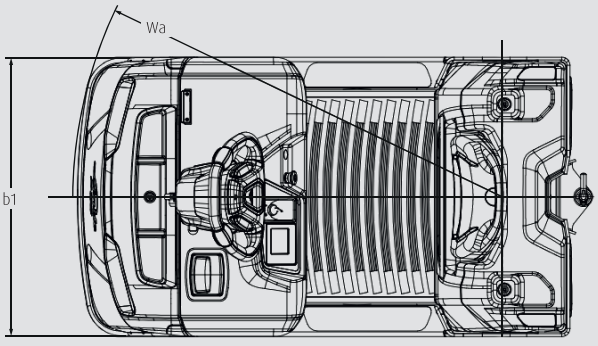
TECHNICAL DATA (according to VDI 2198)

Characteristics	1.1	Manufacturer (abbreviation)		Linde MH	Linde MH	Linde MH
	1.2	**Manufacturer's type designation**		**P40 C B**	**P40 C**	**P60 C**
	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[1)2)]	1032[1)2)]	1032[1)2)]
Weighs	2.1	Service weight	kg	1009[3)]	1014[3)]	1014[3)]
	2.3	Axle loading, unladen front/rear	kg	566/443[3)]	571/443[3)]	571/443[3)]
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 (× = driven wheels)		1x + 2/2	1x + 2/2	1x + 2/2
	3.6	Tread, front	b10 (mm)	580[2)]	580[2)]	580[2)]
	3.7	Tread, rear	b11 (mm)	654[2)]	654[2)]	654[2)]
Dimensions	4.8	Seat height relating to SIP/stand height	h7 (mm)	130 // 918/1058[4)5)]	130 // 918/1058[4)5)]	130 // 918/1058[4)5)]
	4.9	Height drawbar in driving position min./max.	h14 (mm)	1258[4)6)]	1258[4)6)]	1258[4)6)]
	4.12	Coupling height	h10 (mm)	210/265/320[7)]	210/265/320[7)]	210/265/320[7)]
	4.17	Overhang	l5 (mm)	200/260[8)]	200/260[8)]	200/260[8)]
	4.19	Overall length	l1 (mm)	1416/1476[1)2)8)]	1416/1476[1)2)8)]	1416/1476[1)2)8)]
	4.21	Overall width	b1/b2 (mm)	800[2)]	800[2]	800[2]
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	50[4)]	50[4)]	50[4)]
	4.35	Turning radius	Wa (mm)	1229	1229	1229
Performance data	5.1	Travel speed, laden/unladen	km/h	8/10[9)]	8/13[9)]	8/13[9)]
	5.1.1	Travel speed, laden/unladen, backwards	km/h	6/6[9)]	6/6[9)]	6/7[9)]
	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
	5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic
Electric-engine	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_2 equivalent according to DIN EN 16796	kg/h	0.52	0.76	0.82
	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

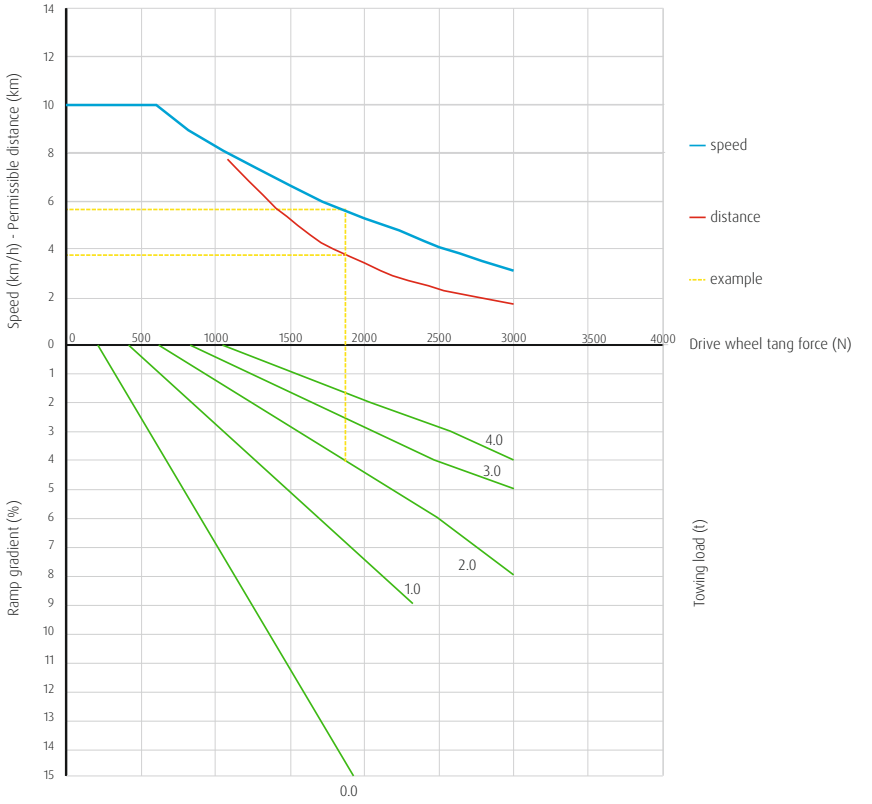
1) With tray 4 PzS + 114 mm
2) (±5 mm)
3) Figures with battery, see line 6.4/6.5.
4) With optional ground clearance +50 mm → m2=100 mm
5) // with optional equipment fully suspended operator compartment only
6) h14 adjustment from -19 mm to +89 mm with adjustable tiller option.
7) With single level coupling
8) Without coupling/with single level coupling
9) (±5%)


55
h10
h10
h10
b11


h14
h7
m2
y
l5
l1


Wa
b1

TOW DIAGRAM

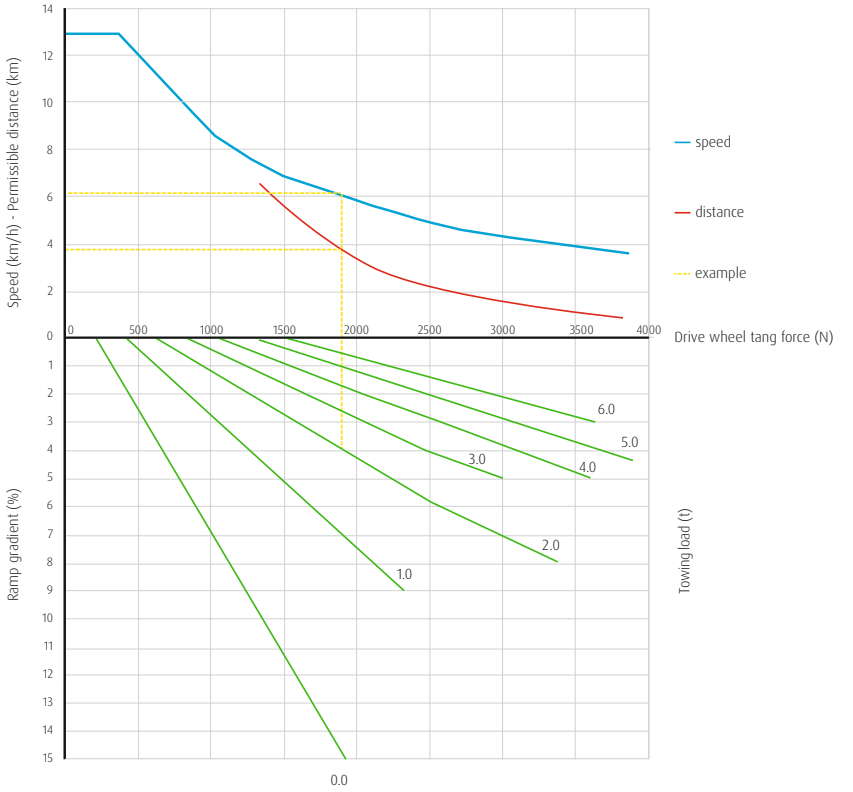


P40 C B

The example illustrates

A tractor towing	2 t
operating on a ramp of	4%
maximum travelling speed attainable	5.7 km/h
length of ramp	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	2 t
operating on a ramp of	4%
maximum travelling speed attainable	6.2 km/h
length of ramp	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	○	○	○
	Front collision protection – steel panel high-mounted	○	○	○
	Front collision protection – steel panel high-mounted, rubber bumper low-mounted	○	○	○
	Front collision protection – steel panel covering front of tractor	○	○	○
	Front collision protection – steel panel covering front of tractor with 3 position trailer coupling (max. towing capacity: 1 tonne)	○	○	○
	Rear foot protection	○	○	○
	Key switch	●	●	●
	PIN code access (in place of key switch)	○	○	○
	Audible sound warning	○	○	○
	Linde BlueSpot – front-facing driving path warning light	○	○	○
	Working lamp – front and rear LED lights	○	○	○
	Front and rear LED lights	–	○	○
	Complete lighting package (including front and rear LED, direction indicators, working, brake and reversing lights)	–	○	○
Service	CAN bus architecture	●	●	●
Digitalisation	Data transmission online	○	○	○
	Data transmission Wifi	○	○	○
	Linde connect:desk – local fleet management with different functional modules	○	○	○
	Linde connect:cloud – fleet management as a service (hosted version)	○	○	○
	dt: trouble codes	○	○	○
	Bluetooth USB stick	○	○	○
Operation/load handling	Ground clearance (h = 50 mm)	●	●	●
	Ground clearance (h = 100 mm)	–	○	○
	Inching control (forward/backward)	○	○	○
Workplace	Operator's cabin (available upon request)	○	○	○
	Operator's platform with cushioned floor mat	●	●	●
	Fully suspended operator's compartment	–	○	○
	Knee protection	○	○	○
	Adjustable backrest	○	○	○
	Adjustable backrest with with folding seat support	–	○	○
	Height adjustable Linde steering wheel	○	○	○
	Dashboard with storage compartment (without A4 clipboard)	○	○	○
	Multifunction colour display: hourmeter, maintenance indication, battery discharge indicator and internal fault code indication	–	●	●
	Front accessory support	○	○	○
	Rear accessory support	○	○	○
	Front panoramic and rear side mirrors	○	○	○
	Radio data terminal mounting and power supply cable 24 V	○	○	○
	Support for scanner and clipboard	○	○	○
	Shrink wrap holder	○	○	○
	Electrical socket 12 V or USB	○	○	○
Attachment/forks	Hook 3 position tow pin	○	○	○
	Hook single position tow pin with cable release from operator's position	○	○	○
	Rockinger 244D automatic towing hitch	○	○	○
	LKE towing arm	○	○	○
	Logistic Train Modification (includes remote control, 36 V electrical preparation, attaching socket at the rear and coupling ball and ball hitch for hooking)	○	○	○
Axles and tyres	Drive wheel Heavy duty	●	●	●
	Drive wheel High grip	○	○	○
	Load wheels polyurethane	●	●	●
	Load wheels cushion rubber, non marking	○	○	○
	Tandem castor wheels	●	●	●
Drive and brake-system	Battery compartment, vertical change 3 PzS (300 Ah/375 Ah) and 4 PzS (480 Ah/620 Ah)	○	○	○
	Battery compartment, lateral change 3 PzS (300 Ah/375 Ah) and 4 PzS (400 Ah/500 Ah), incl. ergonomic locking lever and metal rollers	○	○	○
	Battery compartment, lateral change high 3 PzS (360 Ah/465 Ah) and 4 PzS (480 Ah/620 Ah)	○	○	○
	Lithium-ion technology – choice of battery capacities and optional side plug for easy opportunity charging	○	○	○
	Compatibility kit for competitor batteries	○	○	○
	Lead-acid on-board charger 60 A	–	○	○
	Lithium-ion on-board charger 35 A	○	○	○

● Standard equipment ○ Optional equipment – Not available

CHARACTERISTICS

Linde BlueSpot and lighting package

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

Comfortable operator compartment

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

Intuitive Linde steering wheel

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

Robust chassis

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

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