

Linde Material Handling

Pallet Trucks

T20 – T25 SP | AP

Capacity 2.0 t – 2.5 t | Series 1156

PB ION H2

Nimble all-rounder

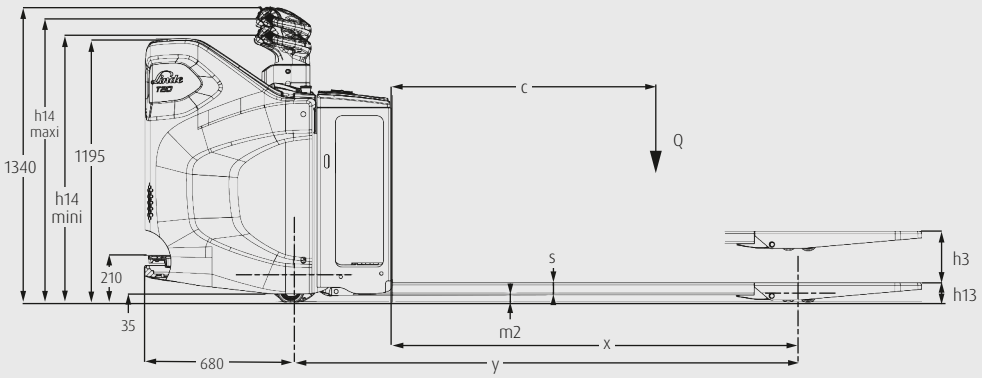
- → Compact pallet truck for efficient loading and unloading of delivery vehicles as well as transport and order picking
- → Foldable operator's platform to use the vehicle as a manoeuvrable pedestrian or ride-on model (AP version)
- → Unique platform concept with standing position (SP) at a 45° angle for better all-round vision and a comfortable body posture (SP version)
- → Innovative Linde e-driver control concept for optimum truck handling in the 45° standing position (SP version)
- → Fully suspended operator compartment reducing shocks and vibrations for smooth operation

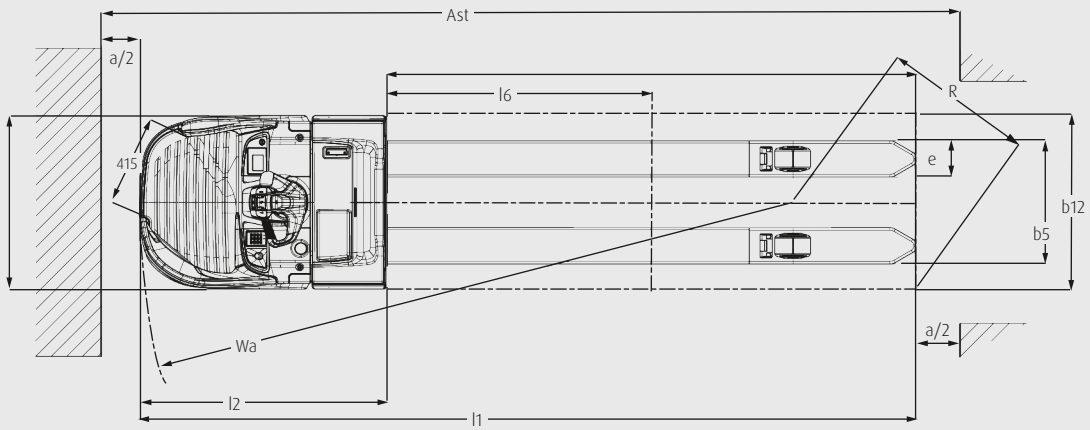
TECHNICAL DATA (according to VDI 2198)

Characteristics	1.1	Manufacturer (abbreviation)		Linde MH	Linde MH	Linde MH	Linde MH
	1.2	**Manufacturer's type designation**		**T20 SP**	**T25 SP**	**T20 AP**	**T25 AP**
	1.2a	Series		1156-00	1156-00	1156-00	1156-00
	1.3	Drive		Battery	Battery	Battery	Battery
	1.4	Operation		Stand on	Stand on	Pedestrian/stand on	Pedestrian/stand on
	1.5	Rated capacity/rated load	Q (t)	2.0	2.5	2.0	2.5
	1.6	Load centre distance	c (mm)	600	1200	600	1200
	1.8	Load distance, centre of drive axle to fork	x (mm)	900/970[1) 2)]	1762/1832[1) 2)]	900/970[1) 2)]	1762/1832[1) 2)]
	1.9	Wheelbase	y (mm)	1346/1416[1) 2) 3)]	2208/2278[1) 2) 3)]	1346/1416[1) 2) 3)]	2208/2278[1) 2) 3)]
Weight	2.1	Service weight	kg	870[4) 5)]	1010[4) 5)]	870[4) 5)]	1010[4) 5)]
	2.2	Axle loading, laden front/rear	kg	1200/1670[4) 5)]	1470/2040[4) 5)]	1200/1670[4) 5)]	1470/2040[4) 5)]
	2.3	Axle loading, unladen front/rear	kg	720/150[4) 5)]	853/157[4) 5)]	720/150[4) 5)]	853/157[4) 5)]
Tyres/chassis	3.1	Tyres rubber, SE, pneumatic, polyurethane		Polyurethane	Polyurethane	Polyurethane	Polyurethane
	3.2	Tyre size, front		Ø 254 × 102	Ø 254 × 102	Ø 254 × 102	Ø 254 × 102
	3.3	Tyre size, rear		2x Ø 85 × 80	2x Ø 85 × 80	2x Ø 85 × 80	2x Ø 85 × 80
	3.4	Additional wheels (dimensions)		2x Ø 125 × 60	2x Ø 125 × 60	2x Ø 125 × 60	2x Ø 125 × 60
	3.5	Wheels, number front/rear (x = driven wheels)		1x + 2/2 (1x + 2/4)[6)]	1x + 2/2 (1x + 2/4)[6)]	1x + 2/2 (1x + 2/4)[6)]	1x + 2/2 (1x + 2/4)[6)]
	3.6	Tread, front	b10 (mm)	572[1)]	572[1)]	572[1)]	572[1)]
	3.7	Tread, rear	b11 (mm)	355/375/395/515[1)]	355/375/395/515[1)]	355/375/395/515[1)]	355/375/395/515[1)]
Dimensions	4.4	Lift	h3 (mm)	115[1)]	115[1)]	115[1)]	115[1)]
	4.9	Height drawbar in driving position min./max.	h14 (mm)	1207/1287[1)]	1207/1287[1)]	1149/1357[1)]	1149/1357[1)]
	4.15	Height, lowered	h13 (mm)	85[7)]	85[7)]	85[7)]	85[7)]
	4.19	Overall length	l1 (mm)	2276[1) 3)]	3526[1) 3)]	2249[1) 3)]	3499[1) 3)]
	4.20	Length to fork face	l2 (mm)	1126[1) 3)]	1126[1) 3)]	1099[1) 3)]	1099[1) 3)]
	4.21	Overall width	b1/b2 (mm)	790[1)]	790[1)]	790[1)]	790[1)]
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	55/165/1150	55/165/2400	55/165/1150	55/165/2400
	4.25	Fork spread	b5 (mm)	520/540/560/680[1)]	520/540/560/680[1)]	520/540/560/680[1)]	520/540/560/680[1)]
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30/150[2)]	30/150[2)]	30/150[2)]	30/150[2)]
	4.33	Load dimension b12 × l6	b12 × l6 (mm)	-	2x 800 × 1200	-	2x 800 × 1200
	4.34	Aisle width predetermined load dimensions	Ast (mm)	-	3841/3853[2) 3) 8)]	-	3814/3826[2) 3) 8)]
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2834/2897[2) 3) 8)]	3733/3781[2) 3) 8) 12)]	2807/2870[2) 3) 8)]	3706/3754[2) 3) 8) 12)]
	4.34.2	Aisle width with pallet 800 × 1200 lengthways	Ast (mm)	2726/2757[2) 3) 8)]	-	2699/2730[2) 3) 8)]	-
	4.35	Turning radius	Wa (mm)	2026/2096[2) 3)]	2888/2958[2) 3)]	1999/2069[2) 3)]	2861/2931[2) 3)]
Performance	5.1	Travel speed, laden/unladen	km/h	11/14[9) 10)]	11/14[9) 10)]	11/14[9) 10)]	11/14[9) 10)]
	5.2	Lifting speed, laden/unladen	m/s	0.03/0.05[5)]	0.04/0.06[5)]	0.03/0.05[5)]	0.04/0.06[5)]
	5.3	Lowering speed, laden/unladen	m/s	0.07/0.06[5)]	0.07/0.06[5)]	0.07/0.06[5)]	0.07/0.06[5)]
	5.8	Max. gradeability, laden/unladen	%	11.1/19.6[11)]	11.1/19.6[11)]	10.0/18.0[11)]	8.0/18.0[11)]
	5.9	Acceleration time, laden/unladen	s	5.9/4.6	5.9/4.6	5.9/4.6	5.9/4.6
	5.10	Service brake		Hydr./electro-mech.	Hydr./electro-mech.	Hydr./electro-mech.	Hydr./electro-mech.
Electric-engine	6.1	Drive motor rating S2 60 min	kW	3	3	3	3
	6.2	Lift motor rating at S3 15%	kW	1.2	2.2	1.2	2.2
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		43 535 B/3PzS	43 535 B/3PzS	43 535 B/3PzS	43 535 B/3PzS
	6.4	Battery voltage/nominal capacity (K5)	(V)/(Ah) o. kWh	24/375	24/375	24/375	24/375
	6.4a	Battery energy content	kWh	7.2	7.2	7.2	7.2
	6.5	Battery weight (±5%)	kg	327	327	327	327
	6.6	Energy consumption according to DIN EN 16796	kWh/h	0.35	0.41	0.35	0.41
	6.6.1	CO_2 equivalent according to EN 16796	kg/h	0.11	0.22	0.11	0.22
	6.7	Turnover output according to VDI 2198	t/h	142.0	195.0	142.0	195.0
	6.8	Turnover efficiency according to VDI 2198	t/kWh	112.0	121.0	112.0	121.0
Drive	8.1	Type of drive unit		AC control	AC control	AC control	AC control
Additional data	10.7	Sound pressure level LpAZ (at the operator's seat)	dB(A)	69	69	69	69

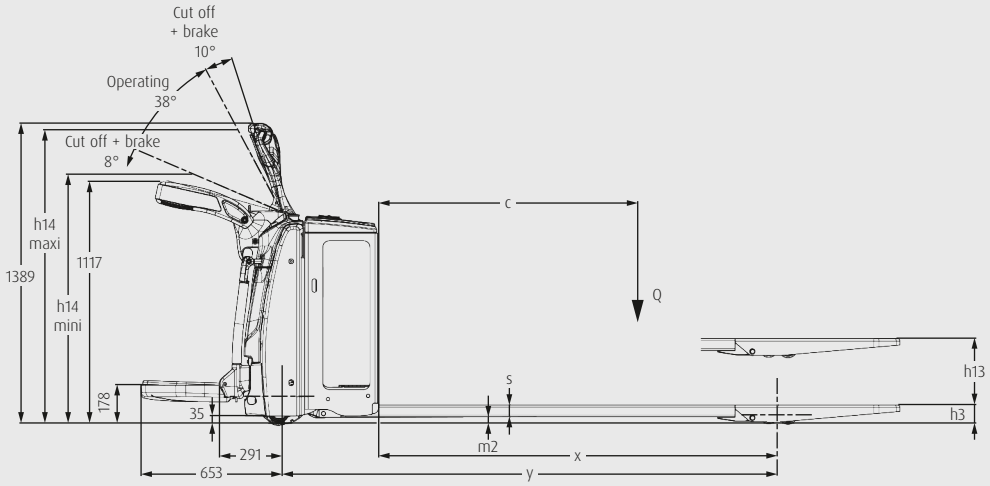
1) (±5 mm)
2) Load arms upraised/lowered
3) ±0 mm = 2 PzS vertical or 3 PzS side change;
+75 mm = 3 PzS vertical or 4 PzS side change;
+150 mm = 4 PzS vertical; +225 mm = 5PzS vertical
4) Figures with battery, see line 6.4/6.5
5) (±10%)
6) Figures in parenthesis with tandem load wheels
7) (-0/+5 mm)
8) Including a 200 mm (min.) operating aisle clearance
9) (±5%)
10) With hydraulic castor wheel
11) Unladen: mechanical crossing with auto adjustable castor wheels, avoid full speed when driving downwards
12) 2 × pallets

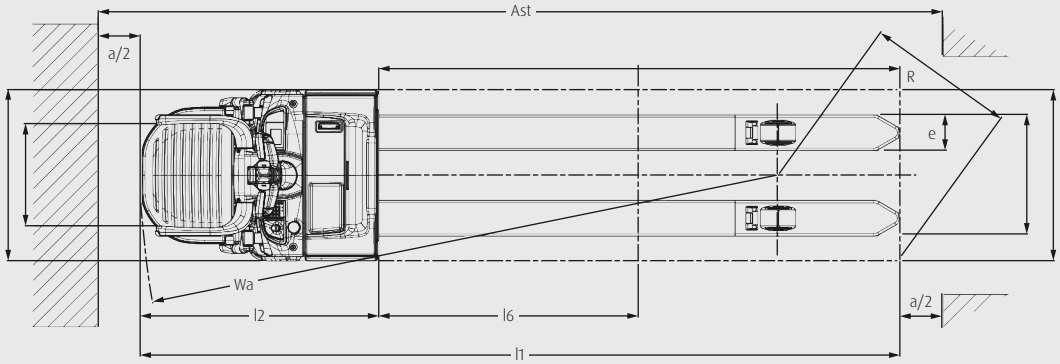
T20 – T25 SP


h14
maxi
1340
1195
h14
mini
210
35
680
c
Q
s
m2
x
y
h3
h13


Ast
a/2
l6
R
415
e
b12
b5
Wa
a/2
l2
l1

T20 – T25 AP


Cut off
+ brake
10°
Operating
38°
Cut off + brake
8°
h14
maxi
1389
1117
h14
mini
178
35
291
653
c
Q
s
m2
x
y
h13
h3


Ast
a/2
R
e
Wa
l2
l6
l1
a/2

STANDARD AND OPTIONAL EQUIPMENT

	Manufacturer's type designation/equipment	T20 SP	T25 SP	T20 AP	T25 AP
Safety	Automatic speed reduction when cornering	●	●	●	●
	Key switch	●	●	●	●
	Log-in PIN code	○	○	○	○
	Folding sideguards and platform	–	–	●	●
	Unique, safe and intuitive 45° operating position	●	●	–	–
	Linde BlueSpot – visual warning of truck presence integrated in the chassis contours	○	○	–	–
	Linde BlueSpot – visual warning of truck presence mounted on accessory support	–	–	○	○
	Foot-detection sensor – trucks slows down or stops if operator's foot is detected outside of the platform contours	○	○	–	–
	Lorry detection – automatic speed reduction and illumination inside the lorry	○	○	–	–
Service	CAN bus technology	●	●	●	●
Digitalisation	Data transmission online	○	○	○	○
	Data transmission WiFi	○	○	○	○
	myLinde – local fleet management with different functional modules	○	○	○	○
	myLinde Shock Detection– recognition and tracing of damages done to the truck	○	○	○	○
	Linde Pre-Op Check App – personalised daily check protocol for operational readiness	○	○	○	○
Opertion/load handling	Creep speed – for operation with tiller in vertical position	–	–	○	○
	Low speed if initial lift lowered	○	○	○	○
	Maximum operating speed limitation (8, 10, 12, 14 km/h, depending on the model)	○	○	○	○
	Load backrest h = 1200 mm or 1800 mm	○	○	○	○
Environ-ment	Coldstore -35°C (in/out) – with metal grid or standard floor mat	○	○	○	○
Workplace	Fully suspended operator compartment – both feet platform and steering unit are suspended	●	●	●	●
	Adjustment of the fully suspended operator compartment – 3 positions	○	○	–	–
	Padded leg rest and backrest	●	●	–	–
	Twin-grip handlebar	●	●	●	●
	Innovative Linde e-driver control perfectly suited for the 45° operation	○	○	–	–
	Height-adjustable steering unit	○	○	–	–
	Multifunction coloured display hour meter, maintenance indication, battery discharge indicator and internal fault code indication	○	○	○	○
	Accessory support	○	○	○	○
	Support for data terminal and power supply cable 24V	○	○	○	○
	Scanner support and clipboard	○	○	○	○
	Electrical socket USB 5V	○	○	○	○
Attachment/ forks	Fork widths: 520 mm, 540 mm, 560 mm, 680 mm	○	○	○	○
	Fork lengths: 1000 mm, 1150 mm, 1600 mm, 2400 mm	○	○	○	○
Axles and tyres	Drive wheel heavy duty, polyurethane non-marking	●	●	●	●
	Drive wheel high grip, polyurethane non-marking	○	○	○	○
	Single load wheel, polyurethane (also available in greasable version)	●	●	●	●
	Tandem load wheel polyurethane (also available in greasable version)	○	○	○	○
	Castor wheels with spring cylinder	○	○	○	○
	Hydraulic castor wheels, electronically controlled	○	○	○	○
Drive and brake system	Power steering	●	●	●	●
	Maintenance-free AC motor	●	●	●	●
	Electromagnetic braking system (or electromechanic)	●	●	●	●
	Li-ION and lead-acid technology available with different battery capacities depending on the model	○	○	○	○
	Integrated charger for lead-acid and Li-ION batteries	○	○	○	○
	External chargers available	○	○	○	○
Lighting	Working lamp – with on/off switch for operation in dark environments	○	○	○	○

● Standard equipment ○ Optional equipment – Not available

CHARACTERISTICS



Safe 45° stand-on fixed platform

Safety

→ Automatic adjustment of operating speed when cornering to prevent risky manoeuvres
→ Optional foot detection can also slow down or bring the vehicle to a smooth stop when operator's feet leave the platform (SP version)
→ Fold-up side bars to protect the operator from injury in the event of collision (AP version)
→ Dead man's switch with traction control for the highest possible safety in every work situation
→ Software-based speed zoning to set up safety zones with automatic speed adjustment



Ergonomic, height-adjustable tiller

Ergonomics

→ Fully decoupled operator platform for effective protection against vibrations and shocks
→ Electric power steering for effortless vehicle control, including automatic steering resistance adjustment
→ Unique concept with 45° operating position for optimal all-round view without straining back and neck (SP version)
→ Innovative steering concept Linde e-driver for optimum, single-handed control of the vehicle in the 45° position if required (SP version)



Li-ION technology available

Handling

→ High top speed of 14 km/h without load for fast transport travel
→ Powerful 3 kW three-phase motor for rapid acceleration and maximum vehicle performance on inclines
→ Special starting system to prevent unintentional rolling backwards on steep ground (e.g. on loading ramps)
→ Mechanically sprung or hydraulic castor wheels guarantee high operating stability on uneven ground
→ New generation of Li-ION batteries for more efficient energy use and optimised charging management



Foldable platform with robust sideguards

Service

→ Robust three-phase motor for long service intervals and low maintenance costs
→ Solid construction with durable parts and sturdy chassis for maximum vehicle availability
→ Effortless accessibility of all relevant components thanks to consistent design-to-service principle
→ Innovative CAN bus architecture for easy access to all vehicle data via diagnostic connector
→ Modern E/E architecture allows remote installation of updates and new functions

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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