

Tow Tractor

P20

Capacity 2.0 t | Series 1193



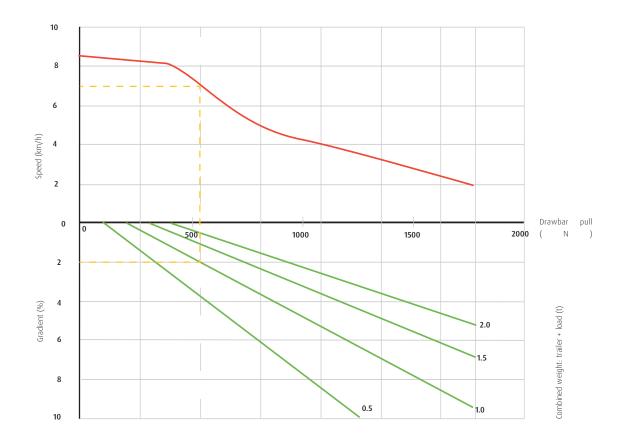
Slim tow tractor

- → Compact construction for excellent handling performance even in tight spaces
- → Direct, responsive steering and a tight turning circle
- → Height-adjustable, folding operator's seat for ergonomic working conditions
- ightarrow Towing capacity for loads up to 2 tonnes for efficient goods transportation

STANDARD AND OPTIONAL EQUIPMENT

	Manufacturer's type designation/equipment	P20
	Horn	120
e Safety	Key switch	•
	PIN code access	0
	Automatic parking brake	•
	Buzzer reverse	0
	Emergency stop button	•
Service	CAN bus architecture	•
Digitalisation	Data transmission online	0
	Data transmission Wi-Fi	0
n/ ling	Inching control forward/back	0
ratio	Increased ground clearance	0
Operation / load handling	Rearview mirrors	0
Enviro- ment	Protection -10°	•
	Multifunction display hour meter, maintenance indication, battery discharge indicator and internal fault code indication	•
lace	Knee protection	•
	Clipboard on battery cover	•
Workplace	Accessory bar	0
>	Foldable and height adjustable seat	•
	Spacious storage compartments	•
	Front and rear LED lights	•
Lighting	Headlight, tail light, braking light and turning indicators	0
	Flashing beacon	0
nent	Traction pin 290/345/400	•
Towing attachm	Hitchless with screws	0
ing a	Traction pin 300	0
Tow	Traction pin 300 wire-guided	0
pue	Drive wheel cushion rubber, non-marking	•
Axles and tyres	Tandem load wheels cushion rubber, non-marking	•
Ax	Drive wheel cushion rubber, polyurethane, polyurethane wet grip	0
	Linde LAC controller	•
nd tem	1.5 kW AC motor (maintenance free)	•
Drive and brake system	Electromagnetic brake Automatic parking brake	
	Automatic parking brake Lateral battery change 2 Pz-B	
	Vertical battery change 2 Pz-B	0
Energy	Built-in charger	0

TOW DIAGRAM



speed (km/h) load (t) example

The example shown illustrates a tractor that is transporting 1 t, on a ramp of 2% gradient, with a maximum driving speed of 7 km/h.

For trailer loads exceeding 2.5 tons and for all trailer loads where a gradient is involved it is recommended that braked trailers are used.

TECHNICAL DATA (according to VDI 2198)

	1.1	Manufacturer (abbreviation)		Linde MH
	1.2	Manufacturer's type designation		P20
Characteristics	1.2.a	Series		1193-00
	1.3	Drive		Battery
	1.4	Operation		Seat
	1.5	Rated capacity/rated load	Q (t)	2.0
	1.7	Rated drawbar pull	F (N)	400
	1.9	Wheelbase	y (mm)	9071)
Weight	2.1	Service weight	kg	630 ²⁾
	2.3	Axle loading, unladen front/rear	kg	350/280
Tyres/chassis W	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Ng .	C+PU/C
	3.2	Tyre size, front		Ø 230 × 75
				2 × Ø 250 × 80
	3.3	Tyre size, rear Auxiliary wheels (dimensions)		2 × Ø 100 × 40
	3.4			
	3.5	Wheels, number front/rear (x = driven wheels)	h10 (mm)	1x + 2/2
	3.6	Tread, front Tread, rear	b10 (mm)	4141)
Performance data Dimensions	3.7		b11 (mm)	480
	4.8	Seat height relating to SIP/stand height	h7 (mm)	800/985
	4.9	Height drawbar in driving position min./max.	h14 (mm)	1170/12701)
	4.12	Coupling height	h10 (mm)	276
	4.13	Loading height, unladen	h11 (mm)	-
	4.16	Length of loading surface	I3 (mm)	-
	4.17	Overhang Wild at lands a surface.	I5 (mm)	253 ³⁾
	4.18	Width of loading surface	b9 (mm)	42451)
	4.19	Overall length	l1 (mm)	13151)
	4.21	Overall width	b1/b2 (mm)	6001)
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	40/804)
	4.35	Turning radius	Wa (mm)	10804)
	5.1	Travel speed, laden/unladen	km/h	8/85)
	5.5	Drawbar pull, laden/unladen	N	400
	5.6	Max. drawbar pull, laden/unladen	N	1760
form	5.7	Gradeability, laden/unladen	%	F 0 /10 06)
Рег	5.8	Max. gradeability, laden/unladen	%	5.0/10.0 ⁶⁾
Electric-engine	5.10	Service brake	kW	Electro-magnetic
	6.1	Drive motor rating S2 60 min	KVV	1.5
	6.3	Battery according to DIN 43531/35/36 A, B, C, no	(V)/(Ah)	2PzS-B
	6.4	Battery voltage/nominal capacity K 5	o. kWh	24/200
	6.5	Battery weight (±5%)	kg	185
	6.6	Power consumption according to VDI cycle	kWh/h	1.21 ⁷⁾
Drive/lifting mechanism	8.1	Type of drive unit		LAC

^{1) (±5} mm)

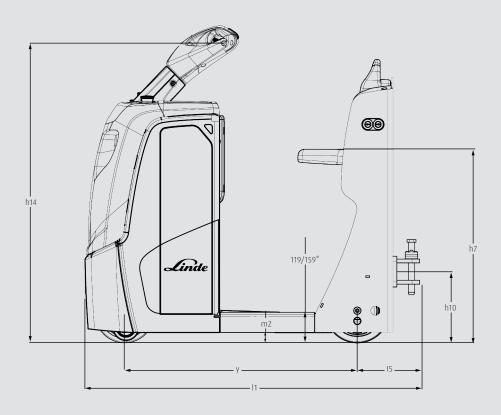
²⁾ Figures with battery, see line 6.4/6.5.

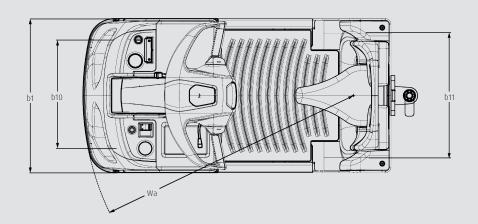
³⁾ With single position hook

^{4) &}gt;=95%

^{5) (±5%)}

^{6) &}gt;=100% 7) 62 cycles





CHARACTERISTICS



Two-handled steering unit

Safety

- → Compact chassis design protects the operator during operation
- → Ergonomic two-handled steering unit for easy and safe steering movements
- → Automatic parking brake for safe working on gradients
- → Optional variant with more ground clearance for safe driving on uneven surfaces and ramps



Height-adjustable and folding operator's seat

Ergonomics

- → Height-adjustable and folding operator's seat for increased operator comfort over long distances
- → Height-adjustable steering unit for easier operation
- → Large, easy-access storage compartments for work tools



Vehicle width of only 600 mm

Handling

- ightarrow Narrow outer dimensions with a width of just 600 millimetres for manoeuvring in the tightest of spaces
- → Large steering unit for easier control
- → Drive wheels with large steering angle for a tight turning radius
- ightarrow 1.5 kW three-phase motor for fast and continuous acceleration to top speed, even when towing trailers



Service-friendly construction

Service

- → Maintenance-free, delete- and water-resistant three-phase motor for high availability and reduced servicing requirements
- → Easy access to all important components thanks to service-friendly construction
- → Comprehensive truck data check via notebook keeps service costs to a minimum and allows for precise adjustment to the respective application

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.

