

Standard Equipment/Optional Equipment

Standard Equipment

- Three wheel configuration
- Cushion rubber drive and load wheels non marking
- Castor wheels
- Vertical and lateral battery change 2 PzB 200Ah
- Foldable and height adjustable seat
- Height adjustable handle bar
- Backrest
- Position light LED front and rear
- Towing attachment control on both chassis sides
- Generous storage compartments
- Metal clip on battery cover
- Key switch
- 1.5 kW AC drive motor
- Hook three positions
- Multi-function display with indication of hour meter, battery discharge, maintenance visit and trouble code
- Horn
- Automatic parking brake
- Emergency stop
- Deadman foot switch
- Digital LAC controller
- External access to CAN-Bus plug
- Protection to -10°C

Optional Equipment

- Truck lighting (position light, working light, turning indicator)
- Various towing couplings
- Knee protection
- Platform for load transporter
- Higher ground clearance for outdoor application
- Built-in charger
- Accessory bar
- Mirror left and right
- PIN code access



Tractor P 20
Capacity 2000kg
Load Transporter W 04
Capacity 400kg

Series 1193



Safety

The chassis design assures that the operator remains well protected within the truck contours while driving. The ergonomic twin grip steering control incorporates a wrap around hand guard. For additional safety tractor and load transporter are available with knee protection.

Performance

With only 600 mm width and its high manoeuvrability it is perfectly suited for towing applications in narrow aisles. The maintenance-free 1.5 kW AC drive motor assures smooth and powerful acceleration for loads up to 2000 kg.

Comfort

A foldable and height adjustable seat offers the operator more comfort while driving long distances. A higher ground clearance is available for indoor/outdoor application.

Reliability

The robustness of steering control and high quality steel chassis ensure reliable operation. Optional lights are recessed in cover. High durable electronic components also contribute to increased truck life.

Serviceability

Efficient in operation and highly cost effective. External CAN-Bus plug enables all truck data to be accessed for service inspection without removing any cover. Easy accessibility to all components and the use of maintenance free AC motors contribute to fast service times.

Features

Chassis

- Only 600 mm width
- Lights are recessed inside cover
- Robust chassis of rugged steel
- All plastic components are well protected within chassis contours
- Ergonomic and safe rounded profile design



Steering

- Precise, direct and responsive steering
- Wide handle bar reduces steering effort
- Maximum maneuverability due to turning radius <1,100 mm
- Height adjustable handle bar

Operator’s compartment

- Low step-in height
- Knee protection
- Backrest with side support
- Foldable and height adjustable seat
- Generous storage compartments on battery cover and below seat



Flexibility

- Loading platform for transporter version
- Higher ground clearance for outdoor application



Service

- Easy service access to all key components
- External diagnosis access to CAN Bus
- Driving parameters can be adjusted individually
- Maintenance-free, moisture and dust-proof 1.5kW AC motor(IP 44)



Braking

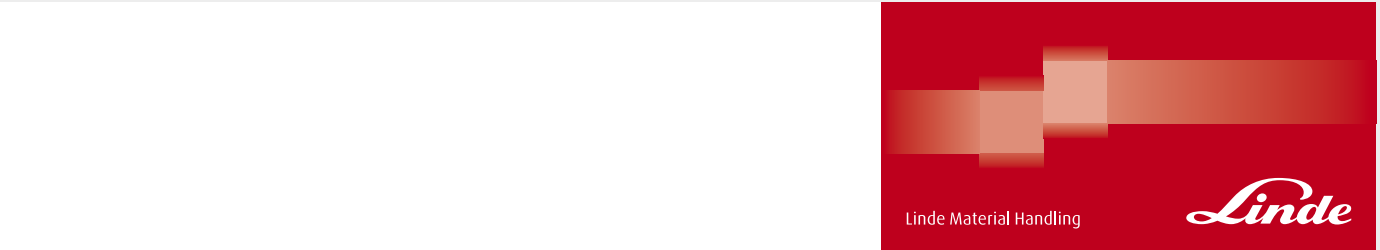
- Automatic parking brake
- Emergency stop
- Automatic electric braking on releasing traction butterfly or reversing direction

Towing couplings

- Towing attachment control for easy coupling and decoupling
- Coupling is always in excellent view of operator
- Manual wire guided hook can be operated without leaving operator’s platform
- Additional various coupling devices

Batteries and charger

- Quick and easy battery locking system
- 2 PzB 200 Ah battery
- Built-in charger
- Vertical and lateral battery change in one chassis



Subject to modification in the interests of progress. Illustration and technical details not binding for actual constructions and may show the optional equipments.

Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE
	1.2	Model designation		P20	W04
	1.3	Power unit		Battery	Battery
	1.4	Operation		Seat	Seat
	1.5	Load capacity	Q (t)	2.0	0.4/1.0 ¹⁾
	1.7	Rated drawbar pull	F (n)	400	300
Weights	1.9	Wheelbase	y (mm)	907 ²⁾	1487 ²⁾
	2.1	Service weight	kg	630 ³⁾	730 ³⁾
	2.3	Axel load without load, front (drive)/rear (load)	kg	350/280	460/270
Wheels	3.1	Tyres, front (drive)/rear (load) C=cushion rubber, P=polyurethane		C+PU/C	C+PU/C
	3.2	Tyre size, front (drive) wheel	mm	Ø230X75	Ø230X75
	3.3	Tyre size, rear (load) wheel	mm	2 X Ø250X80	2 X Ø250X80
	3.4	Auxiliary wheels(dimensions)	mm	2 X Ø100X40	2 X Ø100X40
	3.5	Wheels, number front (drive)/rear (load) (x=driven)		1x+2/2	1x+2/2
	3.6	Track width, front (drive)	b10 (mm)	418 ²⁾	418 ²⁾
	3.7	Track width, rear (load)	b11 (mm)	480	505
Dimensions	4.5	Height of backrest/seat (min/max)	h7(mm)	800/985	840/1025
	4.9	Height of handle bar in operating position,min/max	h14 (mm)	1170/1270	1210/1310
	4.12	Tow coupling height	h10 (mm)	276	165
	4.13	load platform height	h11 (mm)	NA	289
	4.17	rear overhang	l5(mm)	253	531
	4.19	Overall length	l1 (mm)	1315	2172
	4.21	Overall width	b1/b2	600 ²⁾	600/636 ²⁾
	4.32	Ground clearance, center of wheelbase	m2 (mm)	40/80	80
Performances	4.35	Turning radius	Wa (mm)	1080	1660
	5.1	Travel speed, with/without load	km/h	8/8	8/8
	5.5	Drawbar pull (60 minutes rating)	n	400	300
	5.3	Maximum drawbar pull (5 minutes rating)	n	1760	1760
	5.7	Climbing ability, with/without load, 30 minute rating	%	NA	NA
	5.8	Maximum climbing ability, with/without load, 5 minute rating	%	5.0/10.0	5.0/10.0
Drive	5.10	Service brake		Electro-magnetic	Electro-magnetic
	6.1	Drive motor, 60 minute rating	kW	1.5	1.5
	6.3	Battery according to IEC		2PzS-B	2PzS-B
	6.4	Battery voltage/rated capacity (5h)	V/Ah	24/200	24/200
	6.5	Battery weight (±5%)	kg	185	185
Others	8.1	Type of drive control		LAC	LAC
	8.4	Noise level at operator's ear	dB	70	70

Figures for standard version may vary when options equipment is fitted
1) On platform / + on the hook
2) (± 5 mm)
3) Figures with battery, see line 6.4/6.5.

