

Standard Equipment/Optional Equipment

Standard Equipment

New standard features

Wide product range: P 60+P 80 tractors, W 08 load transporter
 Superb ergonomics and spacious operator's compartment
 Efficiency power setting
 Two stage travel speed selection
 Generous storage compartments
 Auxiliary power supply socket (12 V) in dashboard
 Key switch, or alternatively PIN Code access
 Resilient cushioning and swinging arm suspension on all three wheels
 Linde Curve Assist reduces speed in turns

Optional Equipment

Lighting systems (incandescent bulb or LED)
 Deluxe seat with mechanical suspension
 Deluxe Super Comfort seat with air suspension and heating
 Dead man footswitch
 Variable energy saving/performance parameter modes ('Economy', 'Efficiency', 'Performance') to suit individual applications
 Various towing couplings for rear and front (incl. extensions and electrical remote coupling)
 Metal front protection shield
 Rear protection grid (load transporter)
 Rail for rear platform
 Eyelets for load fixation (optional for tractor, standard for load transporter)
 Individual travel speed settings
 Audible warning in reverse
 Inching controls (forward & backwards) on both sides at rear of chassis

Electronics

Linde high frequency AC traction controller sealed against the ingress of dust and moisture
 Sealed and reverse polarity protected connectors ensure excellent vibration proof contact
 Digital interactive display indicating battery discharge status, working hours, travel speed (km/h), Power setting adjustment, driving direction, indicators, and further information for optional equipment

Safety

Four independent braking systems:
 Regenerative electric braking as accelerator released
 Automatic electro-magnetic parking brake
 Gradient hold control & start assist without roll-back
 Self adjusting hydraulic drum brakes on all three wheels
 Constant speed on gradients
 Emergency circuit isolator
 Duplicated fail-to-safe electronic system
 Electric horn
 Electrical overload protection for motor/controller temperature

Front inching control (forward traction only) on both sides of the central chassis for order picking applications
 Front mounting bar for optional equipment such as mirrors, A4 clipboard, data terminals etc.
 Vertical pole at the rear for optional equipment such as flashing beacon, bin etc.
 Modular cabin versions (sun protection, roof+screens, flexi doors, full metal doors, cabin heating)

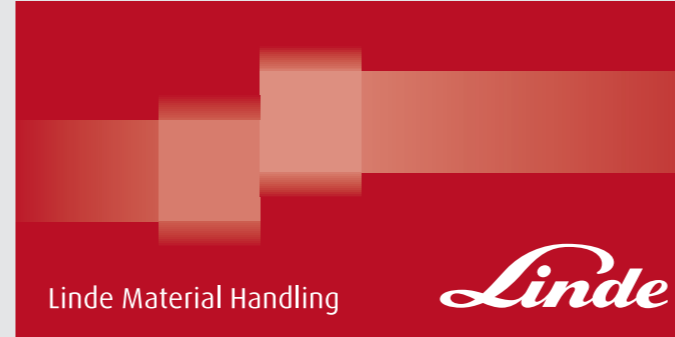
Batteries and chargers

48V DIN batteries up to 375 Ah capacity
 Efficient and safe side changing design
 Various optional changing methods including battery on rollers
 Range of chargers to suit the battery and application
 Battery roller bed



Tractor P 60 + P 80
Capacity 6000 kg + 8000 kg
Load transporter W 08
Capacity 800 kg

Series 1191



Safety

Heavy-duty steel chassis and rugged upper structure with rounded profiles protects operator. Four independent braking systems provide effective braking in all situations. Emergency isolator, electric horn, duplicated fail-to-safe electronic circuits and excellent all-round visibility. Automatic, electro-magnetic parking brake.

Performance

A powerful 4.5 kW sealed AC drive motor for impressive pulling power and up to 20 km/h unladen speed. Latest energy efficient Linde electronic control delivers seamless travelling and manoeuvrability.

Comfort

Easy access and exit is ensured with ergonomic, non-slip steps and wide access openings on either side with smoothly curved profiles. The spacious angled foot well and generous legroom, adjustable seat, intuitive automotive control levers, adjustable steering wheel and ergonomic pedal layout provide an optimum working environment for every individual operator. Resilient mountings and swinging arm suspension on all three wheels.

Features

Chassis

→ Heavy duty, profiled chassis
 → Rugged, impact resistant top section
 → Durable carrying platform
 → Ergonomic rounded profile design
 → Resilient cushioning and swinging arm suspension system front & rear

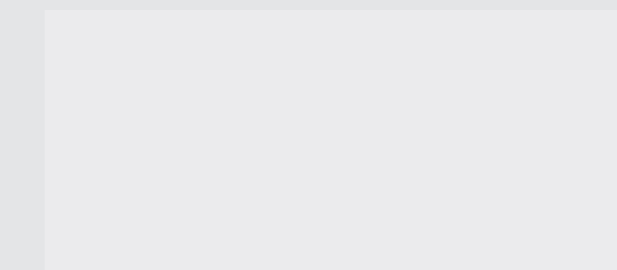
Braking

→ Four independent braking systems:
 → Regenerative electric braking
 → Self-adjusting hydraulic drum brakes on all wheels
 → Automatic electromagnetic parking brake
 → Automatic hill start (No roll-back)



Controller

→ Exceptionally energy efficient Linde digital controller
 → Smooth, precise control of travel and manoeuvring
 → Programmable performance parameters
 → 4.5 kW sealed AC drive motor delivers optimum versatility and efficiency



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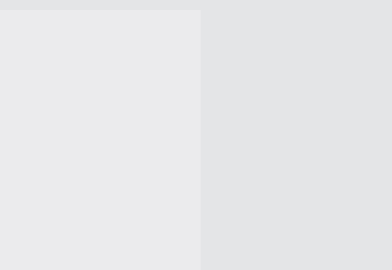
Operator's compartment

→ Superbly spacious and ergonomic operators compartment
 → Non-slip step and wide access on both sides
 → Spacious foot well and leg room
 → Ergonomic, automotive pedal layout
 → Automotive style intuitive control levers
 → Adjustable seat



Batteries and chargers

→ 48V DIN batteries up to 375 Ah capacity
 → Efficient and safe side changing design
 → Various optional changing methods including battery on rollers
 → Range of chargers to suit the battery and application



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Steering

→ Precise responsive steering
 → Large lock to lock angle
 → Adjustable steering column to suit every size of operator
 → Precision travelling and manoeuvring

Towing couplings

→ Rear multi-position towing coupling as standard
 → Optional types of front and rear towing couplings
 → Optional automatic couplings



Serviceability

→ Easy service access to all key components
 → Extended uptime between scheduled services
 → Low maintenance design
 → Digital display assists charging and maintenance planning
 → Diagnostic computer port (CAN bus system)



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

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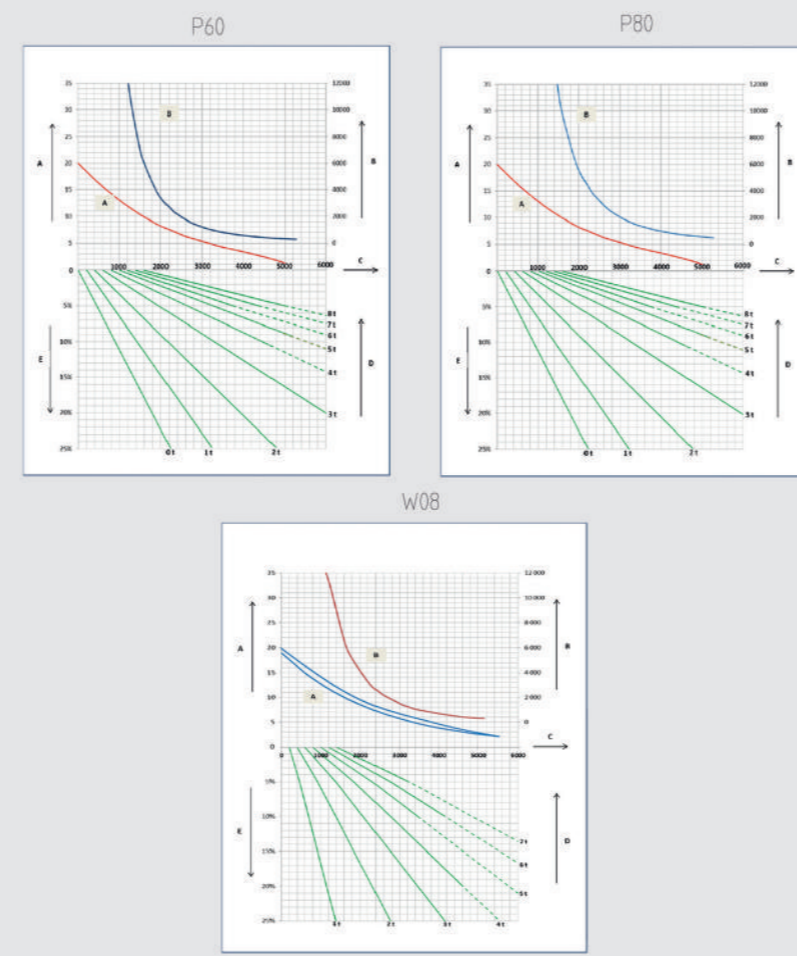
Technical Data according to VDI 2198

		Characteristics		
		P60	P80	W08
1.1	Manufacturer	LINDE	LINDE	LINDE
1.2	Model designation	P60	P80	W08
1.2a	Series	1191-00	1191-00	1191-00
1.3	Power unit	Battery	Battery	Battery
1.4	Operation	Seat	Seat	Seat
1.5	Load capacity/Load	Q (t)	0.15 / 6.0 ¹⁾	0.8 / 7.0
1.7	Rated tractive force	F (N)	1200	1600
1.9	Wheelbase	y (mm)	1190 ²⁾	1190 ²⁾
2.1	Service weight	(kg)	1260 (1515) ³⁾⁴⁾	1280 (1535) ³⁾⁴⁾
2.3	Axle load without load, front/rear	(kg)	550 / 710 (662 / 853) ³⁾	560 / 720 (672 / 863) ³⁾
3.1	Tyres rubber, SE, pneumatic, polyurethane		Pneumatic	SE
3.2	Tyre size, front		4.00-8 / 6PR	125/75-8
3.3	Tyre size, rear		4.00-8 / 6PR	125/75-8
3.5	Wheels, number front/rear (x = driven)		1 / 2x	1 / 2x
3.6	Track width, front	b10 (mm)	0 ²⁾	0 ²⁾
3.7	Track width, rear	b11 (mm)	860 ²⁾	860 ²⁾
4.7	Height of overhead guard (cabin)	h6 (mm)	2070 ²⁾	2070 ²⁾
4.8	Height of seat/stand on platform	h7 (mm)	1020	1055
4.12	Towing coupling height	h10 (mm)	270, 325, 380 ²⁾	270, 325, 380 ²⁾
4.13	Platform height, unladen	h11 (mm)	645	680
4.16	Loading platform, length	l3 (mm)	520	1595
4.17	Rear overhang	l5 (mm)	350	840
4.18	Loading platform, width	b9 (mm)	900 ²⁾	900 ²⁾
4.19	Overall length	l1 (mm)	1830 ²⁾	2955 ²⁾
4.21	Overall width	b1/b2 (mm)	996 ²⁾	996 ²⁾
4.32	Ground clearance, centre of wheelbase	m2 (mm)	135 ³⁾	135 ³⁾
4.35	Turning radius	Wa (mm)	1650 ⁴⁾	2230 ⁴⁾
4.36	Minimum pivoting point distance	b13 (mm)	600	600
5.1	Travel speed, with/without load	(km/h)	12 / 20	11 / 20
5.5	Tractive force, with/without load	(N)	-	-
5.6	Maximum tractive force, with/without load	(N)	-	-
5.7	Climbing ability, with/without load	(%)	see performance graph	see performance graph
5.8	Maximum climbing ability, with/without load	(%)	see performance graph	see performance graph
5.10	Service brake		Electric/hydraulic	Electric/hydraulic
6.1	Drive motor, 60 minute rating	(kW)	4.5 (AC)	4.5 (AC)
6.3	Battery according to DIN 43531/35/36 A,B,C,no		43 531 / A	43 531 / A
6.4	Battery voltage/rated capacity (5h)	(V/Ah)	48 / 375	48 / 240 ⁷⁾
6.5	Battery weight (± 5%)	(kg)	560	394
8.1	Type of drive control		Electronic/stepless	Electronic/stepless
8.4	Noise level at operator's ear	(dB(A))	60	60
8.5	Towing coupling, design/type, DIN 15 170		see option list	see option list

1) Based on level, dry surface with rolling resistance of 200N/t. Refer to graph for specific operating conditions and when the application involves inclines or ramps.
 2) (± 5 mm)
 3) (± 10 kg)
 4) Values for cabin in brackets
 5) (± 2 mm)
 6) (± 20 mm)
 7) With 48/375 Ah travel speed is reduced



Performance charts



- A Speed (km/h)
- B Permissible hauls per hour (m)
- C Drawbar pull (N)
- D Combined weight: trailer + load (t)
- E Gradient (%)

Information

The permissible haul per hour is the total distance travelled, including the return journey and any downhill gradients. It is recommended that braked trailers are used when trailer loads exceed 2.5 tonne and for all trailer loads where a gradient is involved. The solid lines indicate the load/gradient combinations where the tractor can start from stationary.

