Standard Equipment/Optional Equipment

Standard Equipment

General
Four wheel configuration
Pneumatic tyres
Platform length 2,200 mm
Tractor without cab
Left or right hand drive steering position
Adjustable steering column
Comprehensive integrated display
Single pedal accelerator and direction lever
Full suspension PVC driver's seat
Non-suspension PVC passenger seat
Hydrostatic power steering
Two exterior mirrors
Remote inching control
Automatic single position, rear towing coupling
Trailer lighting socket
Dual circuit hydraulic disc brakes on all four wheels
Standard colour scheme - vermilion and charcoal grey
Full road lighting
Heated rear screen (with full cabin)

Electronics
80 V circuit/Highly efficient energy saving system
2 x 2.5 kW maintanance free AC drive motor
Advanced Linde AC digital controller
Precise control of speed and acceleration
Programmable performance parameters

Batteries and chargers
80V, 210 to 320 Ah to IEC
Easy battery change
A range of chargers is available to suit application

Safety
Keyswitch
Emergency circuit isolator
Fail-to-safe circuitry
Traction isolated by seatswitch and/or parking brake
Electrical overload protection
Comprehensive warning lights
Electric horn

Optional Equipment

Platform length 2,600 mm
Cab with front and rear screens, wipers and washers, and two exterior mirrors:
- without sides or
- with flexible roll up sides or
- hinged doors
Optional cab with front and rear screen wipers/washers
Electric or diesel heater
High torque (2 x 10 kW) drive motor - only with 320 Ah battery
Rear lights mounted high at rear of cab
Reverse warning beeper
Contoured solid (superelastic) tyres

Towing couplings:
- Automatic single position, front and/or rear
- Automatic single position, remote, rear
- Multi-position, front and/or rear
240 mm rear coupling extension
Remote inching control
Aluminium lift-out side panels
Hinged aluminium side panels with or without flexible cover and framework
Fabric covered seats
Heated seats
Full suspension passenger seat
Alternative colour schemes

Electric Platform Tractor
Capacity 2000 kg
W 20

Series 127-04

Linde Material Handling

Safety

The heavy duty chassis and cab module provide assured protection for the operator while three independent braking systems deliver responsive stopping power for all situations including automatic speed control descending gradients. A low centre of gravity ensures outstanding stability.

Performance

With the dual capability carrying 2 tonne on the platform and towing nominal loads of 4.5 tonne, the W 20 offers flexible high performance which is optimised by the Linde digital AC control system that provides precise, energy saving control of acceleration and speed for high productivity.

Comfort

A low step facilitates access to spacious operator's cabin where the automotive layout of the pedals, direction lever, steering wheel and controls, together with a fully adjustable suspension seat provides a comfortable and fatigue-free working environment. Cab suspension dampers and a spring damped suspension system front and rear ensures superb levels of driving comfort.

Reliability

Designed for intensive heavy duty applications the rugged, robot-welded chassis is constructed from heavy section steel plate for optimum torsional stiffness and rounded corners for high resistance to impacts. All key components are protected within the chassis while electronic components are housed in sealed aluminium enclosures for assured reliability & long life.

Service

Two powerful, high torque 2.5 kW AC drive motors provide impressive pulling and carrying power for a variety of applications. The energy saving Linde AC digital controller combined with excellent manoeuvrability and an intuitive interface bet-ween the operator and tractor, translates that power into ver-satile, seamless performance and high productivity.

Features

Chassis
- Long and short platform versions
- Robot welded heavy guage steel plate
- Maximum torsional resistance and rigidity
- High impact protection for operator and components
- Low profile chassis for all-round visibility

Ergonomics
- Ergonomic automotive pedal and control layout
- Spacious leg and headroom
- Storage space for documents, pens and beverage holder
- Excellent all-round visibility

Operator's compartment
- Low step access to spacious cabin
- Hinged cabin doors
- Fully adjustable comfort-class operator's seat
- Cabin isolated from chassis by hydraulic dampers
- Ergonomic automotive pedal and control layout
- Multi-function instrument display

Steering
- Hydrostatic power steering
- Effortless manoeuvrability
- Adjustable steering column
- Large lock-to-lock angle

Braking
- Three independent braking systems
- Electric push-button parking brake
- Hydraulic disc brakes (front) external disc brakes (rear)
- Regenerative electric braking as accelerator pedal is released
- Superb regenerative braking control on gradients

Platform
- Generously proportioned platform
- 2,200 mm or 2600 mm platform length
- Easily adapted to suit specific applications
- Optional side panels and rigid covers

Drive units
- Two 2,5 kW maintenance-free AC drive motors
- Integrated in drive axle with no differential required
- Superb traction with anti-slip control
- Reduced power to inner wheel during cornering
- High-torque flexibility and performance

Serviceability
- Easy access for maintenance and battery
- CAN bus diagnostic facility for reduced service intervals
- Multi-function instrument display assists scheduled maintenance planning
- Maintenance-free AC drive technology

Linde Material Handling

Linde Material Handling | 5 Distillers Place | Huntingwood NSW 2148
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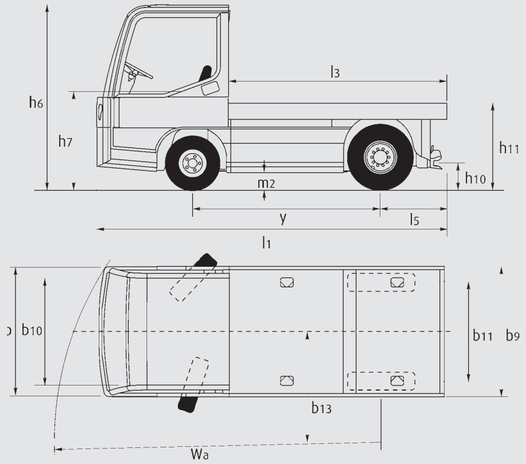
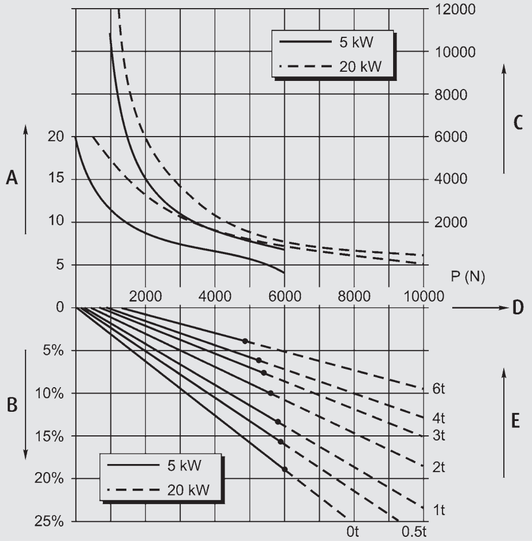
Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE
	1.2	Model designation		**W20 (2200)**	**W20 (2600)**
	1.3	Power unit		Battery	Battery
	1.4	Operation		Seat	Seat
	1.5	Load capacity	Q (t)	2.0 [1]	2.0 [1]
	1.7	Rated tractive force	F (N)	500 / 900 - 800 / 1200 [2]	500 / 900 - 800 / 1200 [2]
	1.9	Wheelbase	y (mm)	1900	1900
Weights	2.1	Service weight	(kg)	3100	3200
	2.2	Axle load with load, front/rear	(kg)	2300 / 2800	2100 / 3100
	2.3	Axle load without load, front/rear	(kg)	1800 / 1300	1800 / 1400
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Pneumatic	Pneumatic
	3.2	Tyre size, front		6.00 R9	6.00 R9
	3.3	Tyre size, rear		7.00 R12	7.00 R12
	3.5	Wheels, number front/rear (x = driven)		2 / 2x	2 / 2x
	3.6	Track width, front	b10 (mm)	1080	1080
	3.7	Track width, rear	b11 (mm)	1020	1020
Dimensions	4.7	Height of overhead guard (cabin)	h6 (mm)	1820	1820
	4.8	Height of seat/stand-on platform	h7 (mm)	745	745
	4.12	Towing coupling height	h10 (mm)	240, 295, 350, 405	240, 295, 350, 405
	4.13	Platform height, unladen	h11 (mm)	840	840
	4.16	Loading platform, length	l3 (mm)	2200	2600
	4.17	Rear overhang	l5 (mm)	730	1130
	4.18	Loading platform, width	b9 (mm)	1300	1300
	4.19	Overall length	l1 (mm)	3530	3930
	4.21	Overall width	b1/b2 (mm)	1300	1300
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	150	150
	4.35	Turning radius	Wa (mm)	3280	3280
	4.36	Minimum pivoting point distance	b13 (mm)	1095	1095
Performance	5.1	Travel speed, with/without load	(km/h)	15 / 20 - 20 / 25	15 / 20 - 20 / 25
	5.5	Tractive force, with/without load	(N)	500 / 900 - 800 / 1200	500 / 900 - 800 / 1200
	5.6	Maximum tractive force, with/without load	(N)	5600 / 6000 - 9600 / 10000	5600 / 6000 - 9600 / 10000
	5.7	Climbing ability, with/without load	(%)	see performance graph	see performance graph
	5.10	Service brake		Electric/hydraulic	Electric/hydraulic
Drive	6.1	Drive motor, 60 minute rating	(kW)	2x 2.5 - 2x 10 [3]	2x 2.5 - 2x 10 [3]
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		43 536 / A	43 536 / A
	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	80 / 320	80 / 320
	6.5	Battery weight (± 5%)	(kg)	858	858
	6.6	Power consumption according to VDI cycle	(kWh/h)	upon request	upon request
Others	8.1	Type of drive control		AC - microprocessor	AC - microprocessor
	8.4	Noise level at operator's ear	(dB(A))	upon request	upon request
	8.5	Towing coupling, design/type, DIN 15 170		upon request	upon request

1) Based on level, dry surface with rolling resistance of 200 N/t. Refer to towing.
2) 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.
3) High torque 2x10kW motor is available in conjunction with 320Ah battery only!





Comment on diagram

Load/gradient combination by full line can be raised from stationary on the gradient. 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 for trailer loads exceeding 9 tons and for all trailer loads where a gradient is involved.

A =	Speed (km/h)
B =	Gradient
C =	Permissible haul per hour (m)
D =	P (N) drawbar pull
E =	Combined weight (trailed plus carried)