Equipment

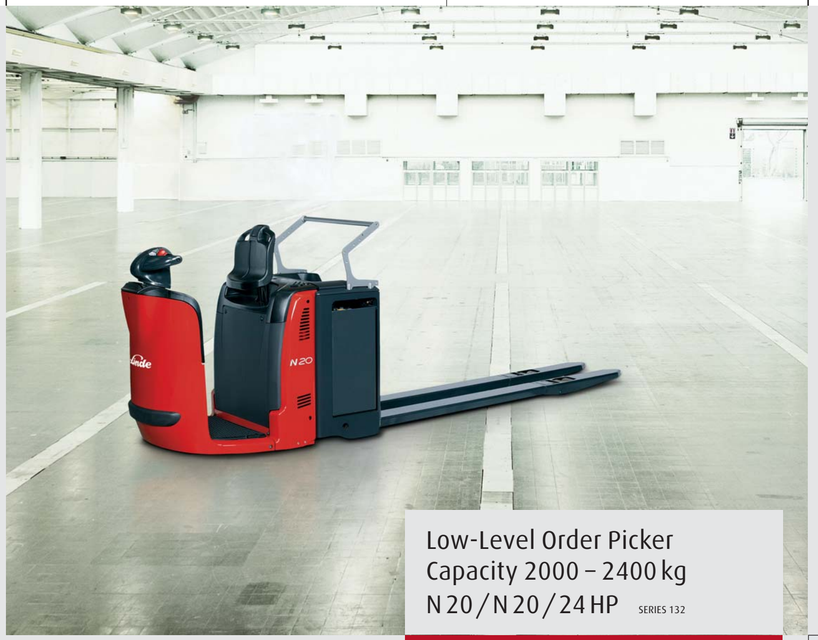
Standard equipment

- Backlit multifunction display
- Truck activated by entering unique PIN code or by ignition key
- Safe operator compartment with cushioned full-suspension platform
- Workstation incorporating storage compartments
- Clipboard
- Adjustable backrest
- Power-assisted steering, adjustable steering resistance
- Self-centering steering
- Automatic speed reduction on turns
- AC drive motor
- Automatic braking on releasing butterfly switch
- Electromagnetic emergancy brake acting proportionally to the load weight
- Active castor wheels (on the five-point contact version)
- Cushion drive wheel
- Single or tandem polyurethane load wheels
- Electric horn
- Low temperature protection to –10°C

Options

- Other fork dimensions (length to 2900 mm)
- Drive wheel: polyurethane, cushion non-marking or wet grip
- Single or tandem greasable load wheels
- Inching buttons on each side buttons each side
- Adjustable Linde control handlebars
- Load backrests
- Equipments on the pole
- Support for data terminal or barcode reader (centre)
- Data terminal on the bow (front)
- Battery on rollers for side change
- Cold store version to –35°C

Other options available on request.



Low-Level Order Picker
Capacity 2000 – 2400 kg
N 20 / N 20 / 24 HP

SERIES 132

Linde Material Handling

Safety

Compact design of the Linde control handlebars ensures that the operator remains well within the truck contours while driving. Ergonomic design of the twin grips enclosed by a hand guard and a 4 mm thick steel front shield assure excellent safety for the operator.

Performance

Powered by an AC motor of 3 kW output, the N 20 remains steady, accelerates rapidly and safely to top speed of 10 km/h loaded and 12 km/h unloaded. A speed of 12 km/h with or without load is attainable with the HP configuration, equipped with active castor wheels to enhance productivity in intensive (long transfers) applications.

Comfort

Precision working at the highest level of performance calls for a high level of operator comfort. The adjustable backrest and handlebar (optional), added to the full-suspension platform surfaced with a cushioning non-skid mat provide superior comfort. Well equipped & designed, the unique truck architecture leads to an efficient picking.

Reliability

The robust chassis of high-grade steel construction contributes to increase the life time of the truck as well as improved performance on the job. Sturdy forks; up to 2900 mm long, are capable of carrying four roll cages at a time as the task demands.

Service

Efficiency at work, efficiency at the cost level. CAN bus connection enables all truck data to be read out for inspection when servicing becomes due at intervals of 1,000 operating hours. Easy accessibility of all components and the maintenance free AC technology employed play an additional part in keeping truck uptime up.

Features

Drive system

- Four-point contact configuration for maximum stability
- Top speed 10 km loaded, 12 km/h unloaded
- Automatic braking on releasing the travel switch
- Well controllable regenerative braking on reversing direction of travel
- Electromagnetic braking initiated by the emergency stop button acts on the drive motor, proportional to the load carried

High-performance option (HP)

- Five-point contact configuration for utmost truck stability
- Electronically controlled hydraulic-suspension active castor wheels for superb stability and traction
- Top speed 12 km/h loaded or unloaded

Batteries for every need

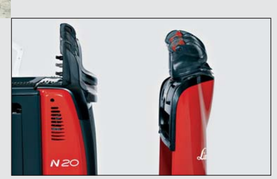
- Vertical battery change as standard, optional side battery change left or right
- Wide range of batteries (low & high) from 270 Ah (3 PzS) to 620 Ah (4 PzS)
- Battery locking system for side change option secures battery in compartment and ease the battery change

Linde control handlebars

- Ergonomic design and position
- Optimum protection for both hands
- All main control functions integrated in the one handle for operation by either hand or both
- Handlebar height adjustment (optional)

CAN bus connectivity

- Electronic management of all components permitting quick and easy diagnosis
- All performance parameters can be configured exactly by the service technician for every individual mission



Workstation

- Digital multifunction display
- Truck activated by PIN code or by ignition key
- Wide and deep storage compartments in front and centre for wrapping paper, work gloves, writing utensils, etc.
- Adjustable scoop seat height to provide comfortable and secure riding position

AC motor

- Powerful, smooth-running 3 kW (at 100 % performance) AC motor
- Moisture- and dust-proof motor, zero maintenance requirement
- Gradeability 13 % fully loaded
- No rollback on uphill starting
- Forceful acceleration takes truck to top speed within 5 metres

Power steering

- Proportional power-assisted steering, self-centering and effortless to operate
- Adjustable steering feedback resulting in outstanding stability
- Automatic speed reduction when cornering
- Manoeuvering effort varies depending on the turning angle

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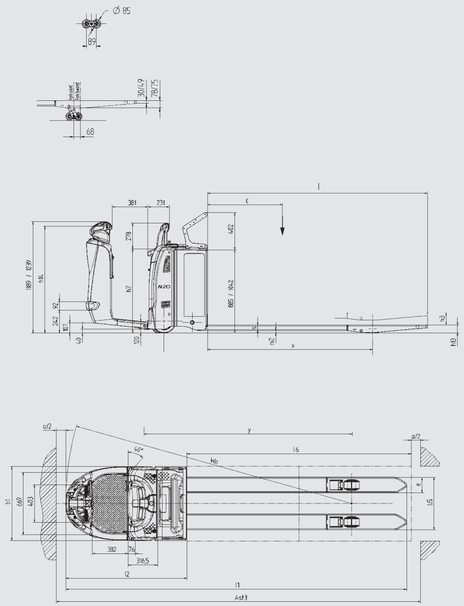
Linde Material Handling

Printed in Germany 056 e 6 0206 Int. B Co

Technical data (According to VDI 2198)

Characteristics	1.1	Manufacturer			LINDE	LINDE
	1.2	Model designation			**N 20** (2350 long forks)	**N 24** (1150 long forks)
	1.3	Power unit			Battery	Battery
	1.4	Operation			Order picker	Order picker
	1.5	Load capacity		Q (kg)	2000	2400
	1.6	Load centre		c (mm)	1200	600
	1.8	Axle centre to fork face (fork raised/lowered)	(± 5 mm)	x (mm)	1702/1763	902/963
	1.9	Wheelbase (fork raised/lowered)	(± 5 mm)	y (mm)	2264/2325 [1]	1464/1525 [1]
Weights	2.1	Service weight (with battery item 6,5)	(± 10 %)	kg	1160	1115
	2.2	Axle load with load, drive side/load side	(± 10 %)	kg	–	1314 / 1801
	2.3	Axle load without load, drive side/load side	(± 10 %)	kg	–	900 / 215
Wheels	3.1	Tyre treads: Polyurethane, Rubber			R + P/P; P + P/P	R + P/P; P + P/P
	3.2	Tyre size, drive side		mm	Ø 254 x 102	Ø 254 x 102
	3.3	Tyre size, load side		mm	2 x Ø 85 x 105	2 x Ø 85 x 105
	3.4	Auxiliary wheels (dimensions)		mm	Stab. Ø 125 x 60	Stab. Ø 125 x 60
	3.5	Wheels number, drive side/load side (x = driven)			1x + 1/2 (1/4); 1x + 2/2 (2/4) [2]	1x + 2/2 (2/4) [3]
	3.6	Track width, drive side	(± 5 mm)	mm	544	544
	3.7	Track width, load side	(± 5 mm)	mm	–	–
Dimensions	4.4	Lift	(± 5 mm)	h3 (mm)	120	120
	4.8	Height of the seats		h7 (mm)	900 / 1000	900 / 1000
	4.9	Height of the tiller arm in operating position, min/max		h14 (mm)	1140 / 1190	1140 / 1190
	4.15	Fork height, lowered		h13 (mm)	85	85
	4.19	Overall length	(± 5 mm)	l1 (mm)	3747 [1]	2547 [1]
	4.20	Length to fork face	(± 5 mm)	l2 (mm)	1397 [1]	1397 [1]
	4.21	Overall width	(± 5 mm)	b1 (mm)	790	790
	4.22	Fork dimensions		s/e/l (mm)	60 x 166 x 2350	60 x 166 x 1150
	4.25	Fork spread	(± 5 mm)	b5 (mm)	520	520
	4.32	Ground clearance, centre of wheelbase min/max		m2 (mm)	–	30
	4.33	Aisle width with pallet 1000 x 1200 across forks		Ast (mm)	–	2797 [1]
	4.34	Aisle width with pallet 800 x 1200 along forks		Ast (mm)	3897 [1]	2797 [1]
	4.35	Turning radius (fork raised)		Wa (mm)	3090 / 3158 [1]	2290 / 2358 [1]
Performances	5.1	Travel speed, with/without load (4 points; 5 points)	(± 5 %)	km/h	10 / 12; 12 / 12	12 / 12 [3]
	5.2	Lifting speed, with/without load	(± 10 %)	m/s	0.031 / 0.039	0.031 / 0.039
	5.3	Lowering speed, with/without load	(± 10 %)	m/s	0.076 / 0.073	0.076 / 0.073
	5.8	Maximum climbing ability, with/without load		%	–	–
	5.9	Acceleration time, with/without load (forward/backwards)		s	1.44 / 1.04; 1.51 / 1.21	–
	5.10	Service brake			Electromagnetic	Electromagnetic
Drive	6.1	Driving motor (60 minutes rating)		kW	3	3
	6.2	Lift motor rating 15 %		kW	1	1.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no			DIN 43535 B	DIN 43535 B
	6.4	Battery voltage/rated capacity (5 h)		V/Ah	24 / 620	24 / 620
	6.5	Battery weight		kg	485	485
Others	8.1	Type of drive control			LAC-Controller	LAC-Controller
	8.4	Sound level at operator's ear		dB (A)	–	–

Standard truck figures varying according to equipements
1) 4 PzS LS: 100 mm less for 3 PzS version
2) Data for 4 points version single load wheel (tandem); for 5 points version single load wheel (tandem)
3) The N 24 is only available in a 5 points version



± 5 %	N 20 Forward unloaded	Forward loaded	Backwards unloaded	Backwards loaded	N 24 Forward unloaded	Forward loaded	Backwards unloaded	Backwards loaded
Version 4 points	12	10	10	10	–	–	–	–
Version 5 points	12	12	10	10	12	12	10	10