

LITHIUM

FE4P100N2

Heavy Duty Lithium Forklift



Why choose between price and quality **WHEN YOU CAN HAVE BOTH!**

HIGHLIGHTS

- U Curtis / CAN-bus Intelligent Computer Control system
- U Infinitely variable hydraulic control speeds
- U 4-Way proportional hydraulic control valve
- U 96V fully electric AC system
- U Lithium battery: 96V/920Ah with REMA connector
- U Charger: 96V/200A
- U Fast charging 2-2.5 hours
- U Large capacity battery provides multiple shift operation.
- U On-board self-diagnostics
- U Large LED display: lifting weight, lifting height, speed, power, steering, fault code, alarm and more.
- U Side shift fork positioning
- U Front and Back up camera with AI pedestrian detection
- U Speed reduction in turns
- U IPx4 water-proof design



FE4P100N2

Heavy Duty Lithium Forklift

The FE4P100N2 Heavy Duty Lithium Forklift redefines heavy-capacity material handling by combining 22,000 lbs of lifting power with advanced lithium-ion technology. Engineered for demanding industrial applications, it delivers exceptional uptime, energy efficiency, and operator confidence through intelligent controls, dual-drive performance, rapid charging capability, and industry-leading safety features. Built to handle the toughest jobs, the FE4P100N2 offers a smarter, cleaner, and more productive alternative to traditional internal combustion forklifts.

POWERFUL AND HIGHLY PRODUCTIVE FORKLIFT



The FE4P100N2 is a high-capacity lithium workhorse engineered for demanding, multi-shift industrial environments where uptime, energy efficiency, and operator confidence matter.

SUPERIOR DESIGN AND PERFORMANCE



Travel Speed Up To 9.3 mph



Gradeability / Full Load



Fast Lifting Speed Up To 67.5 ftn

SUPERIOR DESIGN AND PERFORMANCE



Dual-drive power, premium drive motors, and wet disc brakes deliver exceptional performance while enhancing safety and operational stability.



Dual front tires are designed to maximize load capacity and provide superior stability in demanding applications.



Side shift fork positioner allows for precise movement of the fork carriage without having to move the whole forklift.



Large frame-mounted LCD display improves safety and efficiency by placing the screen in the operator's line of sight.



Easily check condition and troubleshoot with Curtis controller and CAN-bus technology.



Large capacity battery for multiple shift operation.



Intelligent buffering effectively protects the ground and cargo from damage while forks descend to the ground.



The powerful FE4P220N has a draw bar tow capacity of 10,880 lbs.

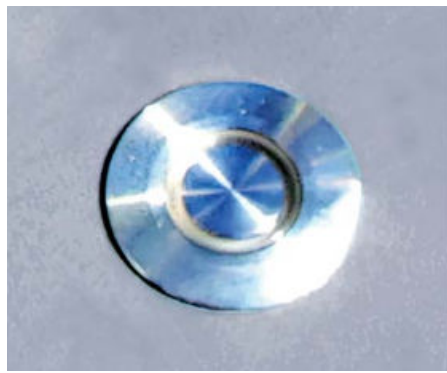


Independent steering system with on-demand hydraulic oil supply for improved energy efficiency.

SAFE. COMFORTABLE. EASY MAINTENANCE.



A secondary step and enlarged grab handle allow the operator to safely and easily get on and off the forklift.



The electronic parking brake button uses color indicators to display parking and drive modes.



USB connector for charging and powering of additional devices during operations.

A LED signal lights improve safety, last a long time and are very durable.

B LED rear work light provides excellent visibility while backing up.

C Blue LED light projects a blue beam onto the floor to warn pedestrians.

D Panoramic rear-view mirror gives the operator a wider rear visibility.

E LED strobe flashes while operating the vehicle to alert others in the area.

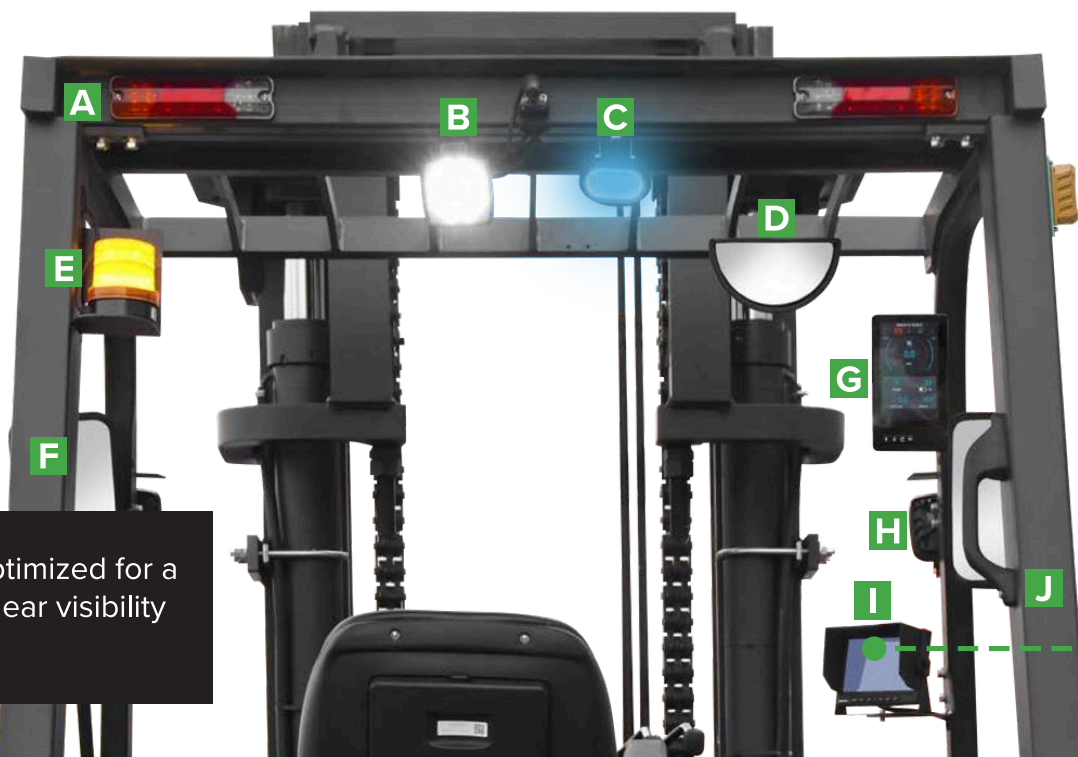
F Dual wide angle mirrors help ensure safety.

G Frame-mounted LCD display mounted in the operator's line of sight.

H LED headlights brighten dimly lit areas for optimal visibility.

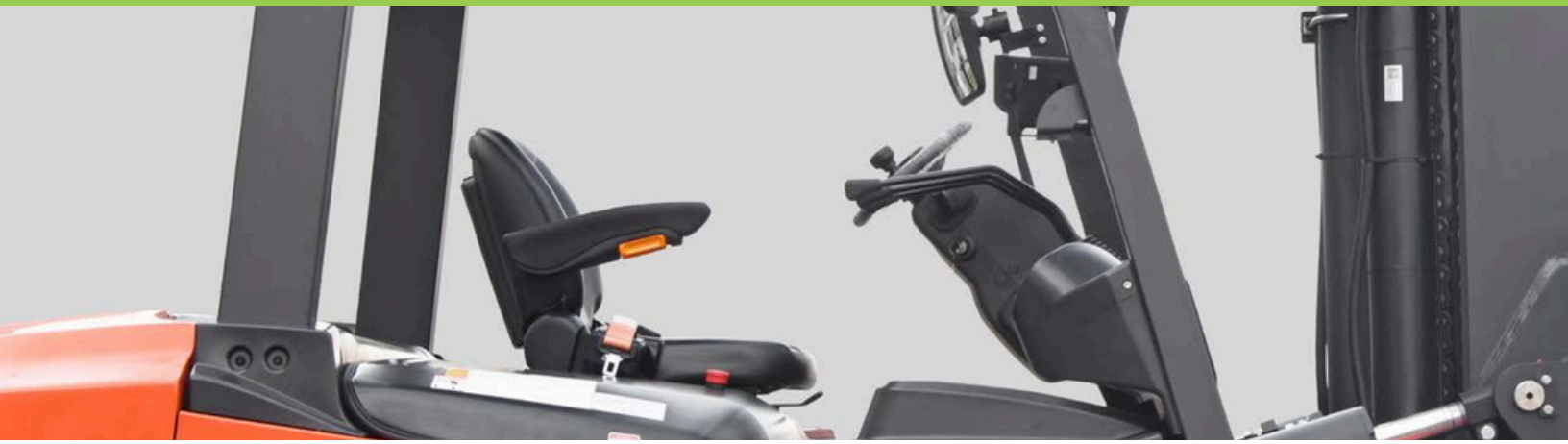
I Camera monitor and AI pedestrian detection.

J Rear grab bar with horn provides easy horn operation while traveling in reverse.



Mast layout is optimized for a wide view and clear visibility while operating.

SAFE. COMFORTABLE. EASY MAINTENANCE.



The large, ergonomic cab and user-friendly design ensures operator comfort throughout the entire work shift.

Deluxe suspension, fully adjustable seat reduces vibration to the driver to effectively reduce driver fatigue for all sizes of operators.

Operator Presence System (OPS) — When operator is not in seat, the hydraulic lift and tilt controls automatically lock out and traveling is disabled.



I The front and back-up camera and monitor, coupled with the AI pedestrian detection system, sounds an alarm when it detects a pedestrian. If a pedestrian gets too close, it will stop the forklift.



Wide-opening tilt-up operator compartment and rear access panel simplifies daily inspections and routine maintenance.

Optimized component layout promotes efficient heat dissipation while providing easy access for maintenance.

APPLICATIONS



Steel Service Centers
Manufacturing Facilities
Ports and Intermodal Facilities
Heavy Equipment Manufacturers
Paper Mills
Lumber and Building Materials
Precast Concrete Operations
Wind and Solar
Large Industrial Warehouses

LONG LASTING AND SAFE LITHIUM POWER

NOBLELIFT uses LiFePO₄ chemistry, the longest lasting and safest lithium battery chemistry available. Our lithium batteries are equipped with a Battery Management System (BMS), thermal management system, and an automotive-grade DC high-voltage control system. BMS manages charging and discharging data to ensure safety throughout its life cycle.

FE4P100N2 forklifts have a 10 year or 20,000 hour warranty on the on the lithium battery cells.



ADVANTAGES OF LITHIUM POWER

96VOLT



REMA/
Anderson
plug-in

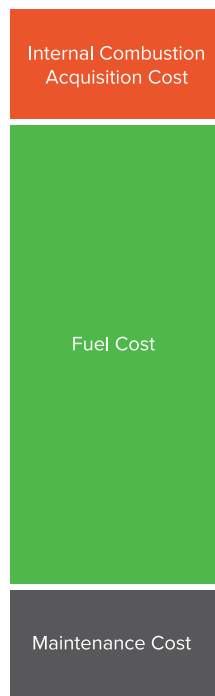
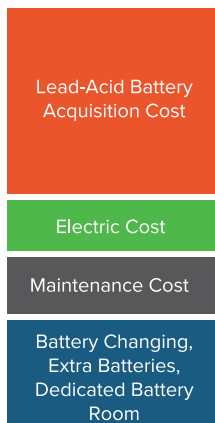


Fast-charging maintenance-free Lithium battery is fully charged in 2-2.5 hours. Battery can be opportunity charged during user breaks and during shift changes which allows the truck to run continuously through multi-shift operations. No battery changes are necessary.

TOTAL COST OF OWNERSHIP

UP TO
47%

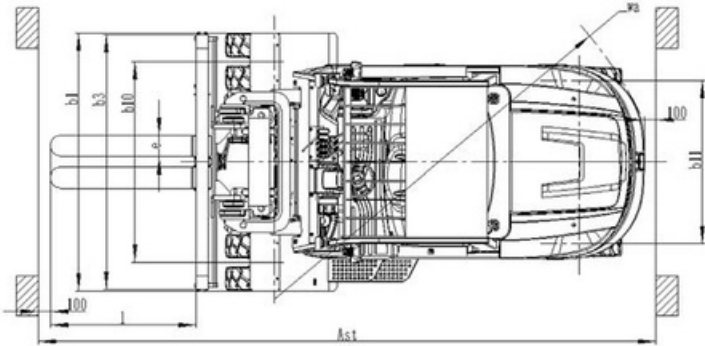
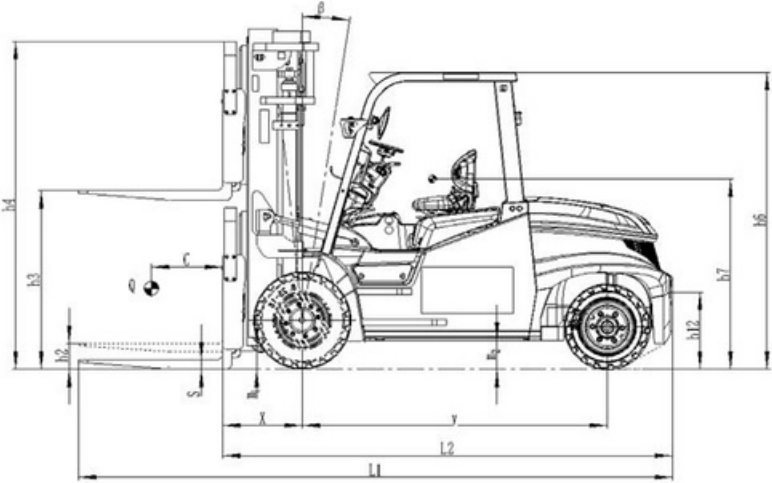
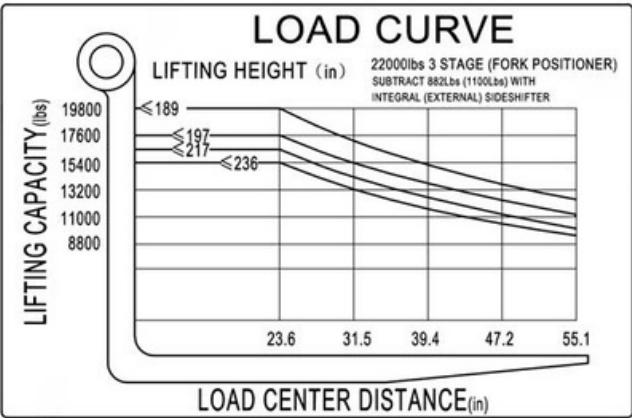
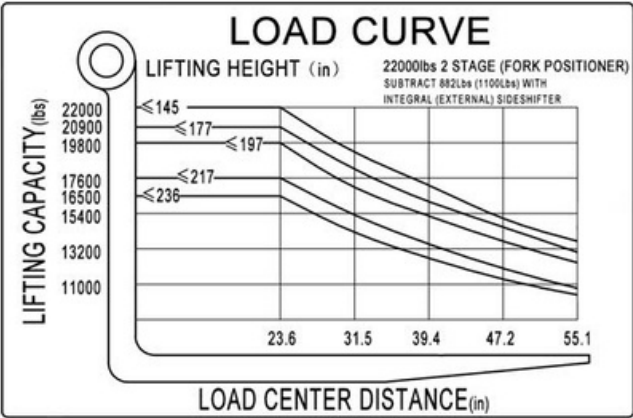
Opportunity Charging
Increases Productivity



LITHIUM BATTERY ADVANTAGES

Lead-Acid Battery		Lithium Battery
Lower fleet availability - Work is interrupted because battery needs to be fully charged before next use	Productivity - Memory Effect 	100% Fleet availability - Opportunity charging allows battery to be charged in between use
Periodic battery replacement	Service Life 	Batteries last 3 times longer and do not need to be replaced
Outsourced or in-house maintenance personnel required	Ongoing Maintenance 	No maintenance cost
8-10 Hours - 2 or more batteries per lift truck	Charge Duration 	2-2.5 Hours - 1 Battery per lift truck
Build an expensive battery room with ventilation	Battery Room 	No battery room needed
Releases hydrogen while charging - Can result in explosion - Acid burns can happen during maintenance	Dangerous Substances 	No dangerous substances
Power loss	Power Savings 	No power loss - Reduces energy consumption by 35%

Mast Table FE4P100N2						
Designation	Lift height h3 (in)	Free lift height h2 (in)	Closed mast height h1 (in)	Extended mast height h4 (in)	Tilt forward/ backward a/b (°)	Capacity table (lb) C=24in without sideshift
						FE4P100N
Two-stage	118	8.7	112	170.8	6 / 9	22,000
	137.8	8.7	121.9	190.6	6 / 9	22,000
	157.5	8.7	133.7	212.2	6 / 9	20,944
	177	8.7	143.5	231.9	6 / 6	20,944
	196.9	8.7	153.3	251.6	6 / 6	19,841
	216.5	8.7	165.2	273.2	3 / 6	19,841
	236.2	8.7	175	292.9	3 / 6	16,535
Three-stage	177	64	112	229.9	6 / 6	17,637
	189	67.9	115.9	241.7	6 / 6	17,637
	196.9	70.7	118.7	249.6	6 / 6	16,535
	216.5	77.2	125.2	269.2	3 / 6	15,432
	236.2	83.7	131.7	288.8	3 / 6	13,228



Identification			
1.2	Model		FE4P220N
1.3	Drive (electric – battery or mains, diesel, petrol, gas, manual)		Electric
1.4	Type of operation (hand, pedestrian, standing, seated, order picker)		Seated forklift
1.5	Load capacity / rated load	Q (lb)	22,000
1.6	Load center distance	c (in)	24
1.8	Load distance, center of drive axle to fork	x (in)	26.4
1.9	Wheel base	y (in)	101.6
Weights			
2.1	Service weight including battery (see line 6.5)	lb	31,020
2.2	Axle loading, laden rear	lb	4,510
2.3	Axle loading, unladen rear	lb	15,576
Wheels, Chassis			
3.1	Tires (solid rubber, superelastic, pneumatic, polyurethane)		Solid pneumatic
3.2	Tire size, front		8.25-15
3.3	Tire size, rear		250-15
3.5	Wheels, number front / rear (x = driven wheels)		4x / 2
3.6	Track width, front	b ₁₀ (in)	66.4
3.7	Track width, rear	b ₁₁ (in)	55.9
Basic Dimensions			
4.1	Mast / fork carriage tilt forward / backward	a/b (°)	6 / 9
4.2	Lowered mast height	h ₁ (in)	111.2
4.3	Free lift	h ₂ (in)	7.7
4.4	Lift height	h ₃ (in)	118
4.5	Extended mast height	h ₄ (in)	170.5
4.7	Overhead load guard height	h ₆ (in)	98.8
4.8	Seat height / standing height	h ₇ (in)	53.4
4.12	Coupling height	h ₁₂ (in)	18.4
4.19	Overall length	l ₁ (in)	197.4
4.20	Length to face of forks	l ₂ (in)	149.4
4.21	Overall width	bl (in)	85.2
4.22	Fork dimensions	s/e/l (in)	3.2 / 6.9 / 48
4.24	Fork carriage width	b ₃ (in)	85.2
4.31	Ground clearance, laden, under mast	m ₁ (in)	8.9 / 8.1
4.32	Ground clearance, center of wheelbase	m ₂ (in)	9.7 / 9.3
4.33	Right angle stack with 40x48 pallet	Ast (in)	197.2
4.35	Turning radius	Wa (in)	131.9
Performance Data			
5.1	Travel speed, laden / unladen	mph	8.7 / 9.3
5.2	Lift speed, laden / unladen	fpm	57.6 / 67.5
5.3	Lowering speed, laden / unladen	fpm	91.3 / 71.5
5.5	Drawbar pull, laden / unladen S2 60 min	blf	10,880
5.7	Max. Gradient performance, laden / unladen S2 5 min	%	15 / 20
5.10	Service brake		Hydraulic
E-Motor			
6.1	Drive motor rating S2 60 min	HP	2x26.8
6.2	Lift motor rating at S3 15%	HP	2x33.5
6.3	Battery standard		Lion
6.4	Battery voltage, nominal capacity K5	V/Ah	96 / 920
6.5	Battery weight (96V/920Ah)	lb	2,200
6.6	Battery dimensions 1/w/h	in	50.4 / 40.7 / 25.2
Other Details			
8.1	Type of drive control		AC
8.2	Operating pressure for attachments	psi	2,030
8.3	Oil volume for attachments	gmp	19.5
8.4	Sound level at driver's ear according to EN 12 053	dB(A)	75

NOBLELIFT reserves the right to make technical changes and improvements to our products to maintain or enhance the quality, delivery, and efficiency.