

NOBLELIFT
CANADA  INC.

WE PROMISE | WE DELIVER

 ISO9001 / ISO14001
CE Certificate

N-SERIES

Lead Acid/Lithium battery counter-balanced forklift

6000/7000/8000KG | 13200/15400/17600LBS

NEW ARRIVAL



 **ELEVEX™**
Material Handling Solutions

FE4P60-80 N Series

Lead acid/Lithium battery counter-balanced forklift

BRIEF INTRODUCTION

Welcome to the future of heavy lifting with our brand new **FE4P50-80 N Series**, a remarkable addition to our independently developed large-tonnage counter-balanced forklifts. This innovation sets new standards in appearance, efficiency, comfort, safety, and reliability. With three versatile load capacity options of 6, 7, and 8 tons, it adapts to your unique needs.

Featuring a rugged, streamlined design, optimized structural engineering, reduced width, and lower self-weight, this forklift effortlessly maneuvers through narrow passages with remarkably low energy consumption. Tailored to excel in the most demanding industries, such as metallurgy, ports, container yards, automotive, and mold manufacturing, where environmental protection is paramount. It replaces traditional internal combustion forklifts, operating efficiently without noise and emissions, promoting a healthier and eco-friendly workspace.

HIGH EFFICIENCY

- ▶ High-power driving motor elevates the 8-ton forklift's top speed to 15.5 km/h and enhances its full-load grade ability by 15%.
- ▶ Precision grinding in the driving axle gear and low-speed AC asynchronous motor minimize transmission system noise.
- ▶ With a high-power oil pump motor and low-noise screw pump the lifting speed soars. The 8-ton forklift now raises full loads at 300 mm/s.
- ▶ A streamlined design with a short wheelbase 2030mm and reduced body width dramatically enhances maneuverability.
- ▶ Lightweight construction and independent steering motor electric control decrease energy consumption.
- ▶ Equipped with a steering sensor that adjusts motor speed based on the steering wheel's rotation, reducing energy consumption and motor noise.



HIGHLIGHTS

- ▶ Small turning radius (2980mm) for exceptional maneuverability.
- ▶ Reversing image system eliminates blind spots below the balance weight.
- ▶ Speed limit function ensures safer turning with automatic deceleration.
- ▶ Convenient features include USB charging, folder, mobile phone bracket, and cup holder.
- ▶ Equipped with OPS descending solenoid valve, CE compliant.
- ▶ Enhanced operating space with ample headroom, even with a suspension seat.
- ▶ The 8-ton standard model easily fits into high cube container.
- ▶ A versatile 96V voltage platform with module design. A rational structural design for excellent sealing, waterproofing, and dust proofing.
- ▶ Compatible with both lead acid and lithium batteries, allowing for quick battery changes.
- ▶ The oil pump motor and controller is positioned on each side of the forklift, with tool-free side panels for easy maintenance and repairs.
- ▶ A split hydraulic oil tank for hassle-free maintenance and cleaning, along with a rotary hydraulic oil return filter for easy replacement.
- ▶ Customizable for container operations with lithium battery models, maintaining a compact height of 2230mm.



COMFORT

- ▶ Added secondary pedal and enlarged handle for easier on/off access.
- ▶ Multifunctional color screen instrument with integrated forklift networking capabilities and a user-friendly human-computer interaction interface.
- ▶ Humanized design includes an integrated storage box, USB charging, mobile phone bracket, cup holder, and more.
- ▶ The tilting cylinder design recesses beneath the bottom plate, leveling the foot platform, expanding longitudinal operation space, and headroom in the overhead guard, ensuring a more comfortable forklift operation.



EFFORTLESS MAINTENANCE & SAFETY

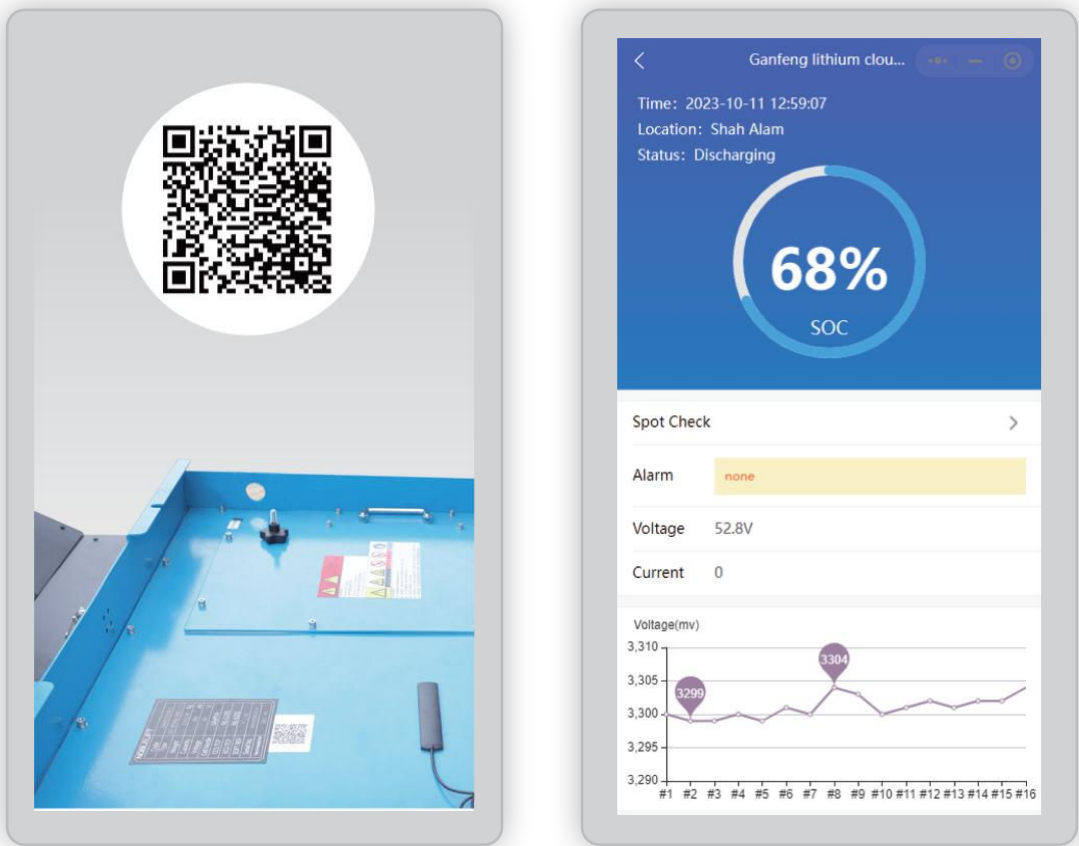


- ▶ Standard AI intelligent imaging system minimizes blind spots.
- ▶ Turning deceleration function reduces rollover risk.
- ▶ Equipped with OPS system in line with safety regulations.
- ▶ Wide-angle rearview mirrors ensure a safer driving experience.
- ▶ Mast soft landing minimizes impact during loading.
- ▶ Features LED working lights, signal lights, and acousto-optic alarm lights.



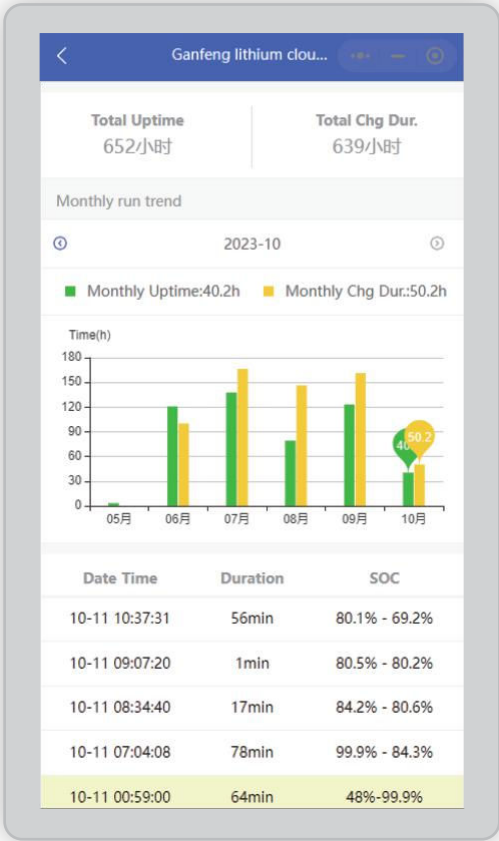
LITHIUM-ION SMART CLOUD PLATFORM

Constantly monitors the battery's operational status throughout its usage to ensure the safety of personnel and equipment.



QR CODE SCANNING

TOTAL OPERATING TIME



OPERATING & CHARGING TIME

FE4P60-80N Battery Balance Weight Type Forklift

Identification

1.1	Manufacturer (abbreviation)			NOBLELIFT		
1.2	Manufacturer's type designation			FE4P60N	FE4P70N	FE4P80N
1.3	Drive: electric(battery or mains, diesel, patrol gas, manual			electric	electric	electric
1.4	Type of operation(hand, pedestrain,standing,seated,order-picker)			seated	seated	seated
1.5	Load capacity/rated load	Q	lb(kg)	13200(6000)	15400(7000)	17600(8000)
1.6	Load centre distance	C	in(mm)	24(600)	24(600)	24(600)
1.8	Load distance, centre of drive axle to fork	x	in(mm)	23.4(595)	23.6(600)	24(610)
1.9	Wheel base	y	in(mm)	79.9(2030)	79.9(2030)	79.9(2030)

Weights

2.1	Service weight incl. battery (see line 6.5)	kg	lb(kg)	Lead-acid:21120(9600) Lion:19646(8930)	Lead-acid:22660(10300) Lion:20680(9400)	Lead-acid:26180(11900) Lion:24640(11200)
2.2	Axle loading, laden front/rear	kg	lb(kg)	Lead-acid:29920/4400 13600/2000	Lead-acid:33440/4620 15200/2100	Lead-acid:39006/4774 17730/2170
				Lion:29018/3828 (13190/1740)	Lion:32010/4070 (14550/1850)	Lion:37928/4312 (17240/1960)
2.3	Axle loading, unladen front/rear	kg	lb(kg)	Lead-acid:8800/12320 4000/5600	Lead-acid:8800/13860 4000/6300	Lead-acid:10560/15620 4800/7100
				Lion:8030/11616 (3650/5280)	Lion:7480/13200 (3400/6000)	Lion:9504/15136 (4320/6880)

Wheels | Chasis

3.1	Type: Solid rubber, superelastic, pneumatic, polyurethane			Solid rubber	Solid rubber	Solid rubber
3.2	Tyres size, front			355/65-15	355/65-15	355/50-20
3.3	Tyres size, rear			205-15	250-15	250-15
3.5	Wheels, number front/rear (x=driven wheels)			2x/2	2x/2	2x/2
3.6	Track width, front	b10	in(mm)	62 (1574)	62 (1574)	63.9 (1623)
3.7	Track width, rear	b11	in(mm)	53.9 (1370)	53.9 (1370)	54 (1370)

Basic Dimensions

4.1	Mast/fork carriage tilt forward/backward		α/β(°)	5/10	5/10	5/10
4.2	Lowered mast height	h1	in(mm)	98.4(2500)	98.4(2500)	98.4(2500)
4.3	Free lift	h2	in(mm)	7.3(185)	7.5(190)	7.9(200)
4.4	Lift height	h3	in(mm)	118.1(3000)	118.1(3000)	118.1(3000)
4.5	Extended mast height	h4	in(mm)	174(4420)	174(4420)	174(4420)
4.7	Overhead load guardheight	h6	in(mm)	100.8(2560)	100.8(2560)	100.8(2560)
4.8	Seat height/standing height	h7	in(mm)	56.3(1430)	56.3(1430)	56.3(1430)
4.12	Coupling height	h10	in(mm)	21.1(535)	21.1(535)	21.1(535)
4.19	Overall Length	11	in(mm)	173.5(4407)	173.7(4412)	174.3(4427)
4.20	Length to face of forks	12	in(mm)	125.5(3187)	125.7(3192)	126.3(3207)
4.21	Overall width	b1	in(mm)	73.6(1870)	73.6(1870)	76.6(1945)
4.22	Fork dimensions	s/e/l	in(mm)	2.4/5.9/48(60/150/1220)	2.4/5.9/48(60/150/1220)	3.0/5.9/48(75/150/1220)
4.24	Fork carriage width	b3	in(mm)	66.9(1700)	66.9(1700)	66.9(1700)
4.31	Ground clearance, laden, under mast	m1	in(mm)	7.9(200)	7.9(200)	7.9(200)
4.32	Ground clearance, centre of wheelbase	m2	in(mm)	7.8(198)	7.8(198)	7.8(198)
4.33	Aisle width for pallets 1000x1200 crossways	Ast	in(mm)	187.8(4770)	188(4775)	188.6(4790)
4.34	Aisle width for pallets 800x1200 lengthways	Ast	in(mm)	195.7(4970)	195.9(4975)	196.5(4990)
4.35	Turning radius	Wa	in(mm)	117.3(2980)	117.3(2980)	117.3(2980)

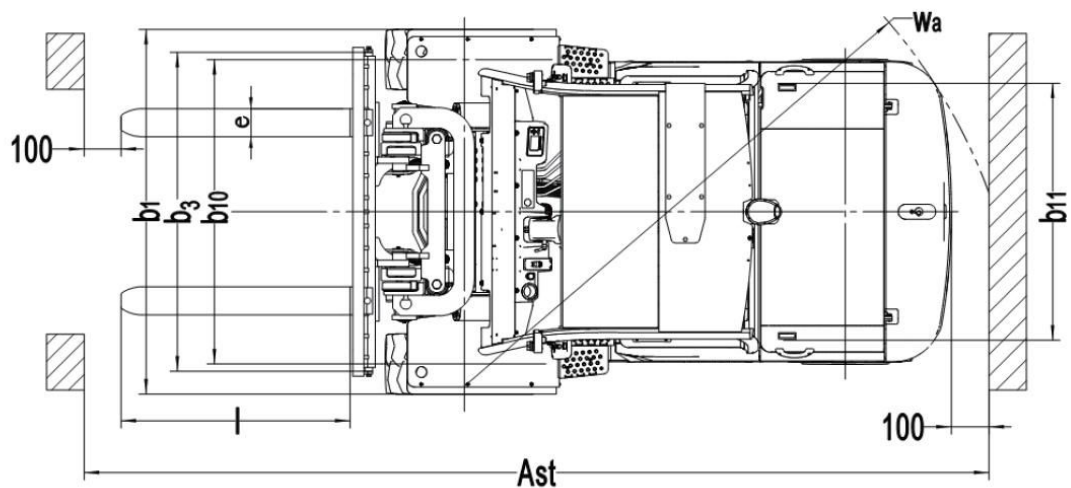
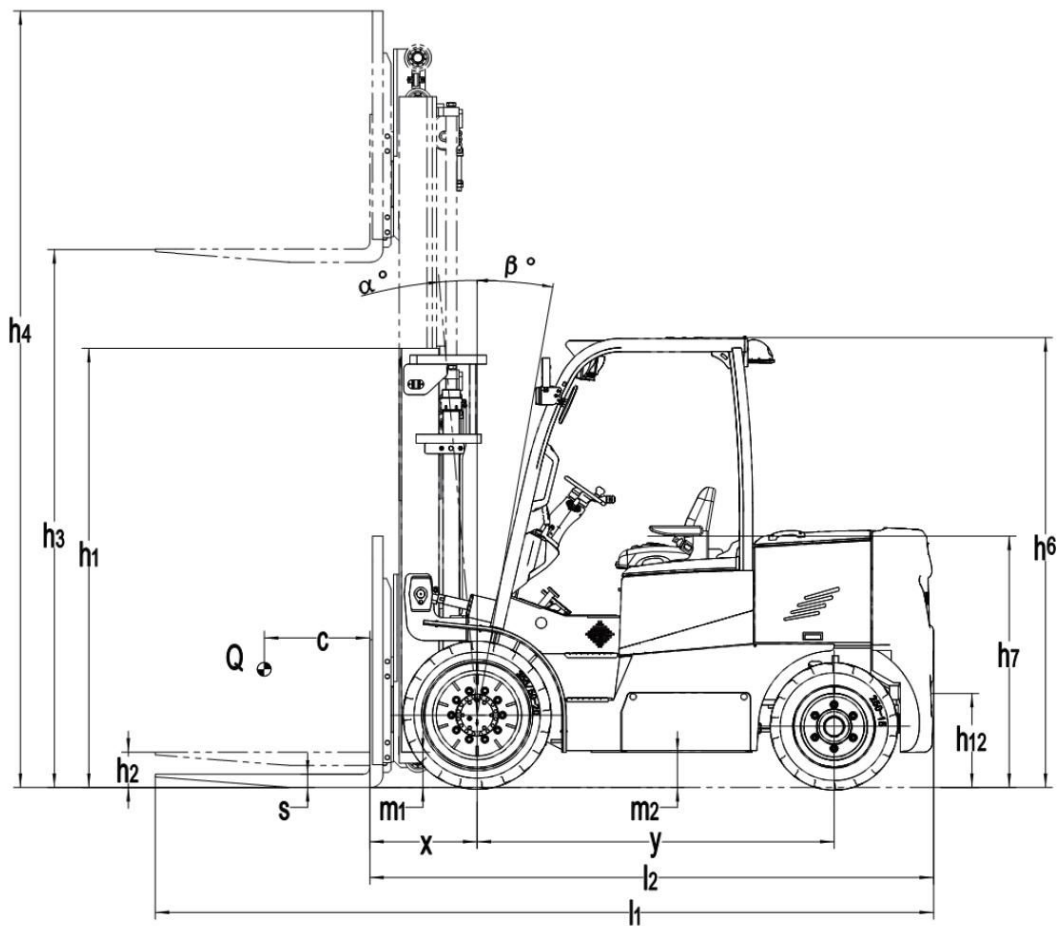
FE4P60-80N Battery Balance Weight Type Forklift						
Performance Data						
5.1	Travel speed, laden/unladen		mph(km/h)	9.3/9.6(15/15.5)	9.3/9.6(15/15.5)	9.0/9.6(14.5/15.5)
5.2	Lift speed, laden/unladen		fpm(mm/s)	66.9/76.7(340/390)	62.9/76.7(320/390)	5.91/76.7(300/390)
5.3	Lowering speed, laden/unladen		fpm(mm/s)	78.7/84.6(400/430)	76.7/84.6(390/430)	74.8/84.6(380/430)
5.5	Drawbar pull, laden/unladen S2 60 min		ibf(N)	8100 (36000)	8100 (36000)	8100 (36000)
5.7	Max. gradient performance, laden/unladen S2 5 min		%	15	15	14
5.10	Service break			Hydraulic	Hydraulic	Hydraulic
E-Motor						
6.1	Drive motor rating S20 min		hp(kW)	46.9(35)	46.9(35)	46.9(35)
6.2	Lift motor rating at S3 15%		hp(kW)	53.6(40)	53.6(40)	53.6(40)
6.3	Battery standard			lead acid/Lion	lead acid/Lion	lead acid/Lion
6.4	Battery voltage, nominal capacity K5		V/Ah	Lead-acid:96/720 (810/945 Optional)	Lead-acid:96/810 (945 Optional)	Lead-acid:96/945 (1035 Optional)
				Lion:96/554 (618/840/912 Optional)	Lion:96/554 (618/840/912 Optional)	Lion:96/554 (618/840/912 Optional)
6.4	Battery weight		lb(kg)	Lead-acid:96/720 (810/945 Optional)	Lead-acid:96/810 (945 Optional)	Lead-acid:96/945 (1035 Optional)
	Battery dimensions l/w/h		in(mm)	55.9/24.0/22.4 (1420/610/570)	55.9/24.0/22.4 (1420/610/570)	55.9/24.0/22.4 (1420/610/570)
Other details						
8.1	Type pf drive control			AC	AC	AC
8.2	Operationg pressure for attachments		psi(bar)	3335 (230)	3335 (230)	3335 (230)
8.3	Oil volume for attachments		gmp(1/min)	17.6(80)	17.6(80)	17.6(80)
8.4	Sound level at driver’s ear according to EN 12 053		dB(A)	74	74	75

Mast Table FE4P60-80N								
Designion	Lift height	Free lift	Closed mast height	Extended mast height	Tilt forward/backward	Capacity table(kg)C=C=24 (600) in/mm Without sideshift, single pneumatic tyres		
	h3 (in/mm)	h2 (in/mm)	h1 (in/mm)	h4 (in/mm)	α/β(°)	FE4P60N	FE4P70N	FE4P80N
Two-Stage ZT	98(2500)	7.9(200)	88.6(2250)	154.7(3930)	5/10	13200(6000)	15400(7000)	17600(8000)
	106(2700)	7.9(200)	92.5(2350)	162.6(4130)	5/10	13200(6000)	15400(7000)	17600(8000)
	118(3000)	7.9(200)	98.4(2500)	174.4(4430)	5/10	13200(6000)	15400(7000)	17600(8000)
	130(3300)	7.9(200)	104.3(2650)	186.2(4730)	5/10	13200(6000)	15400(7000)	17600(8000)
	142(3600)	7.9(200)	110.2(2800)	198.0(5030)	5/10	13200(6000)	15400(7000)	17600(8000)
	157(4000)	7.9(200)	120.1(3050)	213.8(5430)	5/10	13200(6000)	15400(7000)	17600(8000)
	169(4300)	7.9(200)	126.0(3200)	225.6(5730)	5/8	13200(6000)	15400(7000)	17600(8000)
	177(4500)	7.9(200)	129.9(3300)	233.5(5930)	5/8	13200(6000)	15400(7000)	17600(8000)
	189(4800)	7.9(200)	135.8(3450)	245.3(6230)	5/8	12760(5800)	14740(6700)	16940(7700)
	197(5000)	7.9(200)	139.8(3350)	253.1(6430)	5/8	12540(5700)	14300(6500)	16500(7500)
	217(5500)	7.9(200)	151.6(3850)	272.8(6930)	5/8	11880(5400)	13640(6200)	15840(7200)
	236(6000)	7.9(200)	161.4(4100)	292.5(7430)	5/8	11000(5000)	12980(5900)	15180(6900)
Three-Stage DZ	157(4000)	43.0(1093)	94.3(2395)	213.8(5430)	5/8	12760(5800)	14990(6800)	16940(7700)
	171(4350)	48.0(1218)	99.2(2520)	227.6(5780)	5/8	12650(5750)	14880(6750)	16830(7650)
	177(4500)	49.9(1268)	101.2(2570)	233.5(5930)	5/8	12540(5700)	14770(6700)	16720(7600)
	189(4800)	53.9(1368)	105.1(2670)	245.3(6230)	5/8	12320(5600)	14550(6600)	16500(7500)
	197(5000)	57.8(1468)	109.1(2770)	253.1(6430)	5/8	12100(5500)	14080(6400)	16280(7400)

Mast Table FE4P60-80N

Three-Stage DZ	217(5500)	64.1(1628)	115.4(2930)	272.8(6930)	5/8	11660(5300)	13640(6200)	15840(7200)
	236(6000)	74.6(1894)	125.8(3196)	292.5(7430)	5/8	11440(5200)	12760(5800)	14960(6800)

Free lifting height of the third level gantry (without shelves) +16.93



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