

Updated N-Series Lithium-Special Indoor Compact Electric Forklift

FEP-40-45NP-50NPx

4000-5000 kg Capacity
80V Li-ion



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

HIGHLIGHTS

- ▶ Powerful and efficient AC drive system
- ▶ Side-shift
- ▶ Standard head-up display for improved safety
- ▶ On-board self-diagnostic system
- ▶ Wireless 4G battery monitoring
- ▶ LED rear work light, headlight and strobe light
- ▶ Tilt cylinder boots
- ▶ Side extraction battery
- ▶ 80V Li-ion
- ▶ Standard Shimadzu low-noise gear pump
- ▶ Standard Shimadzu Silent Gear Pump
- ▶ Featuring CATL battery cells
- ▶ Standard turning speed reduction
- ▶ Vehicle waterproof rating: IPX4
- ▶ Motor and battery protection rating: IP65



FEP-40-45NP-50NPx

4000-5000 kg. Capacity

Lithium-dedicated chassis with a low-mounted battery lowers the center of gravity and enhances stability. Fully enclosed operator compartment with a side-opening battery door enables fast and easy battery replacement.

INNOVATIVE SOLUTIONS

New Power • Ready to Go



The NP Series of electric forklifts by Noblift, covering load capacities from 4.0 to 5.0 tons, features an all-new chassis design.

Standard configuration: CATL battery cells, lithium battery capacity 536-906Ah, supporting 8-12 hours of continuous operation; optional quick battery swap, standard battery heating function (for low-temperature environments).

Optional 80V 400A smart high-speed charger, 1-2 hour fast charging.

Capacity (V/Ah)	Battery cell	
80V/536Ah	CATL	4-5T
80V/684Ah	CATL	4-5T
80V/804Ah	CATL	4-5T
80V/906Ah	CATL	4-5T



536/804 capacity: 8-year warranty or 16,000 hours.
684/906 capacity: 6-year warranty or 12,000 hours.

Excellent Ergonomic Design

- ▶ Features a high-power oil pump motor paired with an internal-meshing silent high-displacement pump, delivering lifting speeds comparable to internal combustion vehicles. Travel and lifting motors utilize permanent magnet synchronous technology, achieving **15%** energy savings.
- ▶ Overall vehicle dimensions are **345mm** shorter than equivalent-tonnage fuel-powered models.
- ▶ Operator space is increased by **30%** compared to traditional electric forklifts, providing ample legroom for reduced fatigue during extended operations.
- ▶ Translated with DeepL.com (free version) Equipped with a smart HUD display, offering intuitive operation and real-time monitoring of vehicle parameters. Electric control parameters can be adjusted directly via the display, without the need for a handheld device.



Easy operations and maintenance

Internal components are protected with fully sealed covers, ensuring dustproof and waterproof protection for controllers, motors, and other electrical components.

Standard emergency stop switch complies with EU regulations.

The forklift is CE certified.

Vehicle waterproof rating: IPX4.

Motor and battery protection rating: IP65.

Standard battery heating function ensures reliable operation in low-temperature environments, adapting to diverse regional and seasonal work requirements.



Safe and Reliable



- ▶ Cast steering axle with large steering cylinder ensures smoother turning.
- ▶ Increased steering wheel angle delivers a turning radius of just 2600mm, enabling greater maneuverability in narrow passages.
- ▶ Standard turn-down speed function enhances turning safety.
- ▶ Reinforced steering axle + enlarged steering cylinder.



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

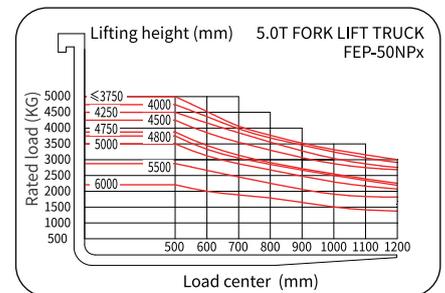
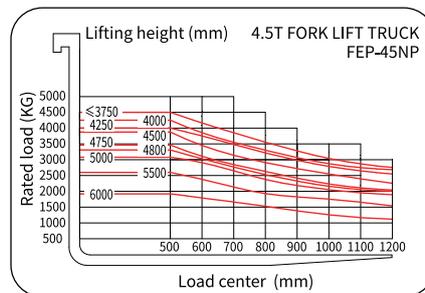
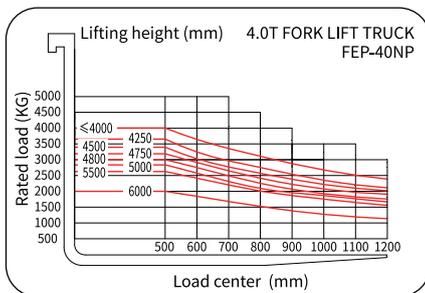


The hood opens at a wide angle for easy maintenance.

Mast Table FEP-40NP / FEP-45NP / FEP-50NPx

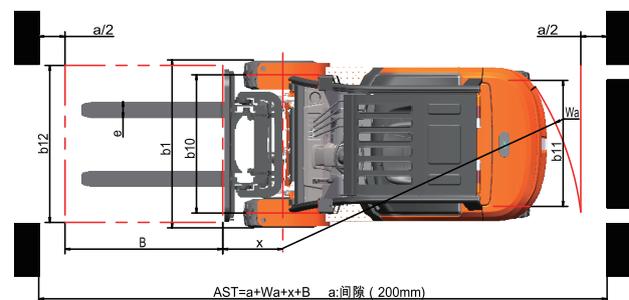
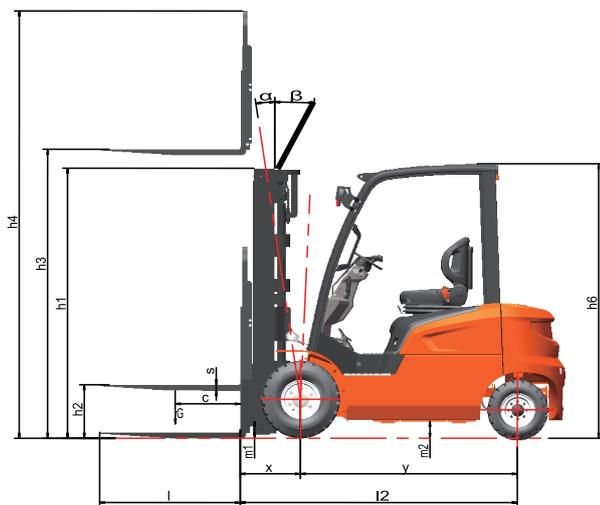
Designation	Lift height h3 (mm)	Free height h2 (mm)	Closed mast height h1 (mm)	Extended mast height h4 (mm)	Tilt forward/backward $\alpha / \beta(^{\circ})$	Capacity table(kg) C=500mm without sideshift single tyres		
						FEP-40NP	FEP-45NP	FEP-50NPx
Two-stage ZT	2100	150	1800	3010	5/10	4000	4500	4990
	2500	150	2000	3410	5/10	4000	4500	4990
	2600	150	2050	3510	5/10	4000	4500	4990
	2700	150	2100	3610	5/10	4000	4500	4990
	2900	150	2200	3810	5/10	4000	4500	4990
	3000	150	2250	3910	5/10	4000	4500	4990
	3300	150	2400	4210	5/10	4000	4500	4990
	3500	150	2500	4410	5/10	4000	4500	4990
	3700	150	2600	4610	5/10	4000	4500	4990
	3750	150	2625	4660	5/10	4000	4500	4990
	4000	150	2800	5010	5/10	4000	4250	4750
	4250	150	2925	5260	5/6	3600	4000	4500
	4500	150	3050	5510	5/6	3400	3800	4250
	4750	150	3175	5760	5/6	3200	3450	3800
	4800	150	3200	5810	5/6	3000	3350	3750
	5000	150	3300	6010	5/6	2800	3150	3500
5500	150	3550	6510	3/6	2600	2550	2850	
6000	150	3800	7010	3/6	2000	1950	2200	
Two-stage ZZ	2300	1144	1900	3214	5/10	4000	4500	4990
	2430	1230	1965	3365	5/10	4000	4500	4990
	2500	1245	2000	3415	5/10	4000	4500	4990
	2610	1300	2055	3525	5/10	4000	4500	4990
	2710	1350	2105	3625	5/10	4000	4500	4990
	3000	1495	2250	3915	5/10	4000	4500	4990
	3300	1645	2400	4215	5/10	4000	4500	4990
	3500	1745	2500	4415	5/10	4000	4500	4990
	3750	1870	2625	4665	5/10	4000	4500	4990
	4000	1995	2750	4915	5/10	4000	4200	4650
	4500	2246	3000	5415	5/6	3350	3750	4150
	5000	2495	3250	5916	5/6	2700	3050	3400
5500	2746	3500	6416	3/6	2500	2450	2750	
6000	2996	3750	6916	3/6	1900	1850	2100	
Three-stage DZ	3600	1024	1950	4484	5/10	4000	4500	4990
	3920	1144	2060	4820	5/10	4000	4500	4990
	4000	1164	2090	4904	5/10	3800	4300	4990
	4350	1289	2200	5249	5/6	3400	3800	4100
	4500	1340	2250	5400	5/6	3200	3600	4000
	4700	1406	2315	5602	5/6	3100	3450	3750
	4800	1439	2350	5701	5/6	3000	3350	3650
	5000	1539	2450	5899	5/6	2800	3150	3400
	5500	1689	2610	6400	3/6	2250	2550	2850
	6000	1904	2820	6900	3/6	1700	1950	2200
6500	2084	2995	7400	3/6	1600	1800	1950	

Load curve graph



1	Manufacturer's type designation		FEP-40NP	FEP-45NP	FEP-50NPx
2	Drive		electric	electric	electric
3	Type of operation		Seated	Seated	Seated
4	Load capacity/rated load	Q (kg)	4000	4500	5000
5	Load centre distance	c (mm)	500	500	500
6	Load distance,centre of drive axle to fork	x (mm)	555	555	560
7	wheelbase	y (mm)	1950	1950	1950
8	Service weight incl	kg	6210	6535	6965
9	Axle loading ,laden front/rear	kg	8679/1532	9380/1655	10170/1795
10	Axle loading,unladen front/rear	kg	2795/3416	2941/3594	3134/3831
11	Type:solid rubber,superelastic,pneumatic,polyurethane		Pneumatic tire	Pneumatic tire	Pneumatic tire
12	Tyres size,front		250-15	250-15	28×12.5 - 15
13	Tyres size,rear		23×9 - 10	23×9 - 10	23×9 - 10
14	Track width,front	b10 (mm)	1198	1198	1208
15	Track width,rear	b11 (mm)	1128	1128	1128
16	Mast/fork carriage tilt forward/backward	α/β (°)	5/10	5/10	5/10
17	lowered mast height	h1 (mm)	2250	2250	2250
18	Free lift	h2 (mm)	150	150	150
19	Lift height	h3 (mm)	3000	3000	3000
20	Extended mast height	h4 (mm)	4240	4240	4240
21	Overhead load guardheight	h6 (mm)	2250	2250	2250
22	Overall length	l2 (mm)	2900	2900	2905
23	Overall width	b1 (mm)	1440	1440	1500
24	Fork dimensions	s*e*l (mm)	50*122*1070	50*122*1070	55*150*1070
25	Fork carriage width	b5 (mm)	310/1250	310/1250	310/1250
26	Ground clearance ,laden,under mast	m1 (mm)	180	180	180
27	Aisle width for pallets 1000×1200 crossways	Ast (mm)	4355	4355	4360
28	Aisle width for pallets 800×1200 lengthways	Ast (mm)	4555	4555	4560
29	Turning radius	Wa (mm)	2600	2600	2600
30	Travel speed,laden/unladen	km/h	18/18	18/18	18/18
31	Lift speed,laden/unladen Two stage gantry	mm/s	350/430	350/430	350/430
32	lowering speed,laden/unladen Two stage gantry	mm/s	430/480	430/480	430/480
33	Max.Drawbar pull ,laden/unladen	N	23000	24000	26000
34	Max.Gradient performance,laden/unladen	%	15/20	15/20	15/20
35	Service brake		Hydraulic	Hydraulic	Hydraulic
36	Parking Brake		mechanical brake	mechanical brake	mechanical brake
37	Drive motor rating S2 60 min	kW	24.5 (PMM)	24.5 (PMM)	24.5 (PMM)
38	Lift motor rating at S3 15%	kW	32.5 (PMM)	32.5 (PMM)	32.5 (PMM)
39	Battery voltage,nominal capacity K5	V/Ah	80/536	80/536	80/536
40	Battery voltage,nominal capacity K5	V/Ah	80/684/804/906	80/684/804/906	80/684/804/906
41	Battery weight (536Ah)	kg	430	430	430
42	Type of drive control		MOSFET/AC	MOSFET/AC	MOSFET/AC
43	type		650+450	650+450	650+450

Structural Diagram



A GLOBAL LEADER

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