

**NOBLELIFT**

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**8/9/10 T**

**Electric Counterbalanced Forklift**

**FEP-80/90/100N2**



**NOBLELIFT INTELLIGENT EQUIPMENT CO., LTD.**

# System compatibility and unique style

## Flexible battery options:

Lithium or lead-acid, choose as needed.

## Integration:

Combines the performance of internal combustion with the efficiency and comfort of electric forklifts.



# High efficiency and Energy-saving



Dual-drive power, imported motors, wet brake, which not only provides strong power but also further enhances the forklift's safety and stability.

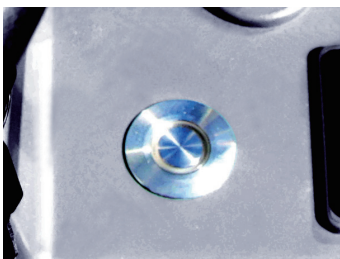


- Dual-gun charging for fast, efficient power-up.



The lithium battery forklift comes equipped with dual-gun charging, significantly reducing charging time. Featuring a high-capacity lithium battery, it offers flexible charging and usage, ensuring reliable, all-weather performance and continuous operation—perfectly suited for demanding heavy-duty applications.

- Multiple configurations, low energy consumption.



The parking brake button flashes different colors in parking and driving modes for easy operation.



Independent steering system, on-demand oil supply, reducing energy consumption.



LED lights are brighter, more durable, and energy-efficient.

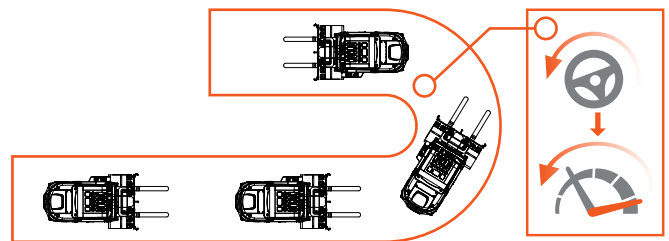


Dual front tires with enhanced loading capacity.



## Intelligent Safety

- Intelligent Automatic Parking:**  
 Regenerative braking system design, active parking in multiple scenarios, standard rearview camera, ensuring safety and peace of mind.
- Intelligent Turning Speed Limit:**  
 Active speed limiting function, balancing efficiency and safety during high-speed turns.
- Intelligent Limit Buffering:**  
 Mast lifting and lowering with intelligent sensing, preventing impact at the limit, ensuring safety and comfort.
- Intelligent Operation Protection:**  
 Full OPS system to prevent wrong operation and ensure safety.
- Intelligent Control Strategy:**  
 Dual-core controllers, meeting the latest EU safety standards.



The forklift comes standard with a rearview camera, enhancing overall safety performance.



The overhead guard with integrated top cover design increases strength, ensuring safety.

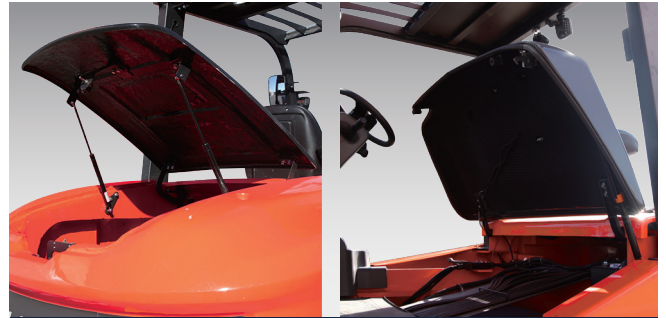


Standard color screen display shows key information such as forklift speed, working hours, battery charge, fault codes etc.

# Easy Maintenance



The battery is centrally positioned with side access, making it easy to switch between lead-acid and lithium batteries, meeting the needs of different users and applications.



The front and rear covers open at a wide angle, making daily inspections and maintenance easier.



Optimized layout, balancing heat dissipation and ease of maintenance.

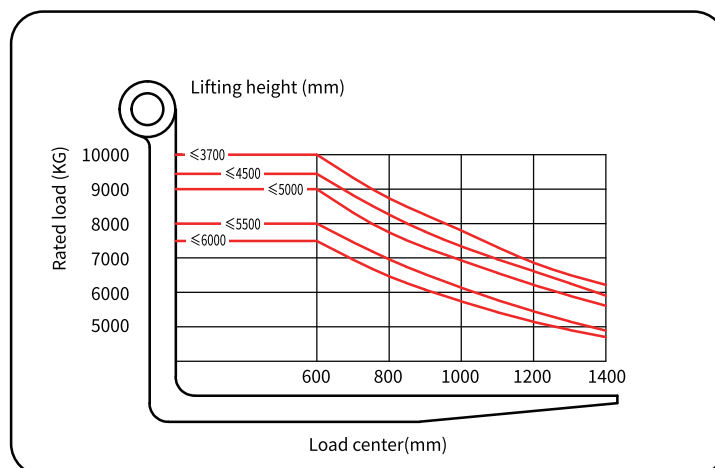


Fully open design, making hydraulic oil filling more convenient.

## Mast Table FEP-80/90/100N2

Designion	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=600mm Standard telescopic fork		
						FEP-80N2	FEP-90N2	FEP-100N2
Two-stage	3000	220	2845	4340	6/9	8000	9000	10000
	3500	220	3095	4840	6/9	8000	9000	10000
	4000	220	3395	5390	6/9	7500	8500	9500
	4500	220	3645	5890	6/6	7500	8500	9500
	5000	220	3895	6390	6/6	6000	7000	8000
	5500	220	4195	6940	3/6	6000	7000	8000
Three-stage	6000	220	4445	7440	3/6	5500	6500	7500
	4500	1625	2845	5839	6/6	7000	8000	9000
	5000	1795	3015	6341	6/6	5500	6500	7500
	5500	1960	3180	6838	3/6	5500	6500	7500
	6000	2125	3345	7335	3/6	5000	6000	7000

## Load curve diagram



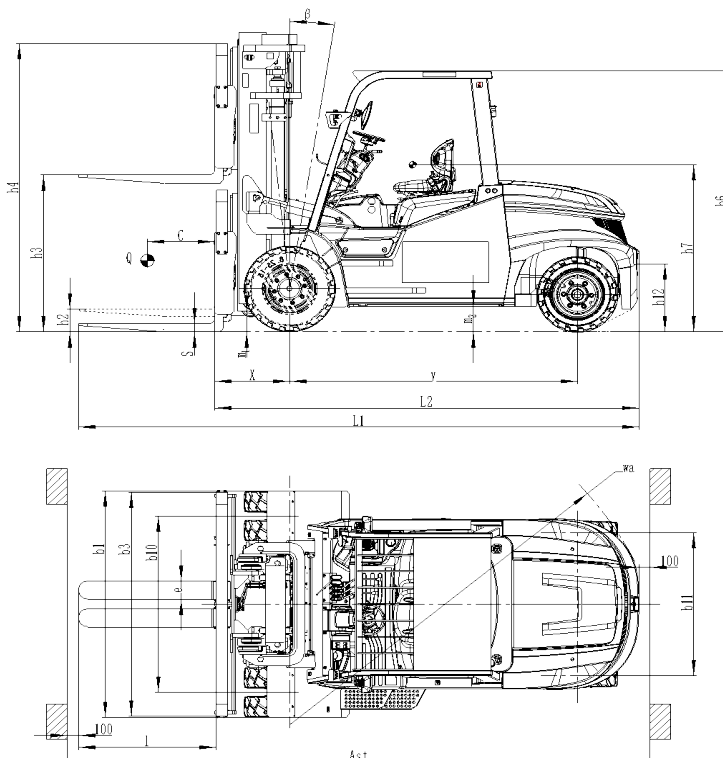
FEP-80/90/100N2 Series Lithium Battery Counterbalance Forklift Configuration Table

● standard ○ optional

S.N.	Model	Classification	Configuration		Remark
1	FEP-80/90/100N2	Packaging	Noblelift packing	●	
2	FEP-80/90/100N2	Front Wheel Drive Assembly	AC traction control	●	
3	FEP-80/90/100N2		Permanent magnet traction control	○	
4	FEP-80/90/100N2	Smart Security	Hydraulic power brake	●	
5	FEP-80/90/100N2		Lifting cylinder explosion-proof valve	●	
6	FEP-80/90/100N2		Tilt cylinder self-locking valve	●	
7	FEP-80/90/100N2		Operator Perception System OPS	●	
8	FEP-80/90/100N2		Electronic detection of valve stem center position	●	
9	FEP-80/90/100N2		Fingerprint lock and key switch	●	
10	FEP-80/90/100N2		Brake oil active and automatic heat dissipation	●	
11	FEP-80/90/100N2		Rear camera	●	
12	FEP-80/90/100N2		Neutral start detection	●	
13	FEP-80/90/100N2	Wheel Part	Solid tire (Chaoyang)-black	●	
14	FEP-80/90/100N2		Solid tire (Chaoyang)-white	○	
15	FEP-80/90/100N2	Standard Overhead Guard and Cab	Standard overhead guard	●	
16	FEP-80/90/100N2		Air conditioning (top mounted) + front and rear wipers with water spray + fan	○	
17	FEP-80/90/100N2		Single air conditioning (top mounted) + front wiper with water spray + fan	○	
18	FEP-80/90/100N2	License Plate Bracket	License Plate Bracket	○	
19	FEP-80/90/100N2	Lighting	LED lights throughout the vehicle	●	Front working light/signal light/warning light/rear working light
20	FEP-80/90/100N2		Three-way blue light	○	
21	FEP-80/90/100N2		Three-dimensional red light	○	
22	FEP-80/90/100N2		One-way blue light	○	
23	FEP-80/90/100N2		Front and rear blue light	○	
24	FEP-80/90/100N2	Charger	Charger function group (double gun 200A*2)	●	
25	FEP-80/90/100N2		Charger function group (single gun 200A*1)	○	Charging output interface: Anderson Type A plug-in
26	FEP-80/90/100N2		Charger function group (three-phase five-wire)	○	
27	FEP-80/90/100N2		Dual-gun charger function set (foreign version)	○	
28	FEP-80/90/100N2	Battery	Traction battery functional group 80V1216Ah	●	
29	FEP-80/90/100N2		Lithium battery 80V1216AH (foreign version)	○	
30	FEP-80/90/100N2		Traction battery functional group 76.8V920Ah	○	
31	FEP-80/90/100N2		Traction battery functional group 76.8V920Ah (foreign version)	○	
32	FEP-80/90/100N2		Traction battery functional group 76.8V840AH	○	
33	FEP-80/90/100N2		Traction battery function group 80.5V800AH	○	
34	FEP-80/90/100N2		Traction battery functional group 76.8V824AH	○	
35	FEP-80/90/100N2	Traction battery functional group 76.8V1120AH	○		
36	FEP-80/90/100N2	Automatic Fork Leveling	Automatic fork leveling	○	
37	FEP-80/90/100N2		Fork level lever	●	
38	FEP-80/90/100N2	Mast Part	Level 2 3000	●	
39	FEP-80/90/100N2		Level 2 3500	○	
40	FEP-80/90/100N2		Level 2 4000	○	
41	FEP-80/90/100N2		Level 2 4500	○	
42	FEP-80/90/100N2		Level 2 5000	○	
43	FEP-80/90/100N2		Level 2 5500	○	
44	FEP-80/90/100N2		Level 2 6000	○	
45	FEP-80/90/100N2		Level 3 4500	○	
46	FEP-80/90/100N2		Level 3 5000	○	
47	FEP-80/90/100N2		Level 3 5500	○	
48	FEP-80/90/100N2		Level 3 6000	○	
49	FEP-80/90/100N2	Fork Frame Part	Adjustable fork (width 2107)	●	
50	FEP-80/90/100N2	Load Backrest Part	Shelf height 1300	●	
51	FEP-80/90/100N2	Accessories	Side shift fork (width 2107)	○	Four-way valve, side shift + synchronous distance adjustment
52	FEP-80N2	Hydraulic Adjustable Fork Part	70×175×1220	●	8 tons
53	FEP-80N2		70×175×1370	○	8 tons
54	FEP-80N2		70×175×1520	○	8 tons
55	FEP-80N2		70×175×1670	○	8 tons
56	FEP-80N2		80×175×1750	○	8 tons
57	FEP-80N2		80×175×1820	○	8 tons
58	FEP-80N2		80×175×1970	○	8 tons
59	FEP-80N2		80×175×2120	○	8 tons
60	FEP-80N2		80×175×2270	○	8 tons

S.N.	Model	Classification	Configuration		Remark
61	FEP-90/100N2	Hydraulic Adjustable Fork Part	80×175×1220	●	9 tons, 10 tons
62	FEP-90/100N2		80×175×1370	○	9 tons, 10 tons
63	FEP-90/100N2		80×175×1520	○	9 tons, 10 tons
64	FEP-90/100N2		80×175×1670	○	9 tons, 10 tons
65	FEP-90/100N2		88×175×1820	○	9 tons, 10 tons
66	FEP-90/100N2		88×175×1970	○	9 tons, 10 tons
67	FEP-90/100N2		88×175×2120	○	9 tons, 10 tons
68	FEP-90/100N2		88×175×2270	○	9 tons, 10 tons
69	FEP-80/90/100N2		88×175×2440	○	8 tons, 9 tons, 10 tons
70	FEP-80/90/100N2	Multi-way Valve Part	Triple manual valve	●	
71	FEP-80/90/100N2		Four-way manual valve	○	
72	FEP-80/90/100N2	Tilt Cylinder	Tilt cylinder (6/9)	●	
73	FEP-80/90/100N2		Tilt cylinder (6/6)	○	
74	FEP-80/90/100N2		Tilt cylinder (3/6)	○	
75	FEP-80/90/100N2	Comfort and Convenience Part	Full hydraulic power steering	●	
76	FEP-80/90/100N2		Lifting oil circuit speed limiting valve	●	
77	FEP-80/90/100N2		Human-Computer Interaction	●	
78	FEP-80/90/100N2		Steering wheel with handle ball	●	
79	FEP-80/90/100N2		Lifting cylinder lowering buffer	●	
80	FEP-80/90/100N2		Side mirrors	●	
81	FEP-80/90/100N2		Monitor (Qifurui)	●	
82	FEP-80/90/100N2		USB (rectangular)	●	
83	FEP-80/90/100N2		Speeding voice broadcast	○	
84	FEP-80/90/100N2	Seats	Ordinary seat function group (He'an AH7-2BC right armrest)	●	
85	FEP-80/90/100N2		Suspension seat function group (He'an AH7-2ABC right armrest)	○	
86	FEP-80/90/100N2	Reversing Voice	Reversing buzzer	●	
87	FEP-80/90/100N2		Reverse steering voice (Chinese version)	●	
88	FEP-80/90/100N2		Reverse steering voice (English version)	○	
89	FEP-80/90/100N2		Reverse steering speeding voice (Chinese version)	○	
90	FEP-80/90/100N2		Reverse steering voice speeding (English version)	○	
91	FEP-80/90/100N2	Other	Signage Chinese	●	
92	FEP-80/90/100N2		Signage English	○	
93	FEP-80/90/100N2		Signage Neutral	○	
94	FEP-80/90/100N2		Vehicle tool box	●	

Structure diagram



Identification	1.1	Manufacture(abbreviation)		NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT
	1.2	Manufacturer's type designation		FEP-80N2J	FEP-90N2J	FEP-100N2J	FEP-80N2Y	FEP-90N2Y	FEP-100N2Y
	1.3	Drive:electric(battery or mains),diesel,petrol gas,manual)		electric	electric	electric	electric	electric	electric
	1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)		seated	seated	seated	seated	seated	seated
	1.5	Load capacity/rated load	Q (kg)	8000	9000	10000	8000	9000	10000
	1.6	Load centre distance	c (mm)	600	600	600	600	600	600
	1.8	Load distance,centre of drive axle to fork	x (mm)	670	670	670	670	670	670
	1.9	wheelbase	y (mm)	2580	2580	2580	2580	2580	2580
	Weights	2.1	Service weight incl. battery(see line 6.5)	kg	12740	13280	14100	12740	13280
2.2		Axle loading ,laden front/rear	kg	1850	1930	2050	1850	1930	2050
2.3		Axle loading,unladen front/rear	kg	6400	6670	7080	6400	6670	7080
Wheels, Chassis	3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		Solid	Solid	Solid	Solid	Solid	Solid
	3.2	Tyres size,front		8.25-15	8.25-15	8.25-15	8.25-15	8.25-15	8.25-15
	3.3	Tyres size,rear		250-15	250-15	250-15	250-15	250-15	250-15
	3.5	Wheels,number front/rear(X=driven wheels)		4X/2	4X/2	4X/2	4X/2	4X/2	4X/2
	3.6	Track width,front	b10 (mm)	1686	1686	1686	1686	1686	1686
	3.7	Track width,rear	b11 (mm)	1370	1370	1370	1370	1370	1370
	Basic Dimensions	4.1	Mast/fork carriage tilt forward/backward	$\alpha/\beta(^{\circ})$	6/9	6/9	6/9	6/9	6/9
4.2		lowered mast height	h1 (mm)	2825	2825	2825	2825	2825	2825
4.3		Free lift	h2 (mm)	196	196	196	196	196	196
4.4		Lift height	h3 (mm)	3000	3000	3000	3000	3000	3000
4.5		Extended mast height	h4 (mm)	4330	4330	4330	4330	4330	4330
4.7		Overhead load guardheight	h6 (mm)	2510	2510	2510	2510	2510	2510
4.8		Seat height/standing height	h7 (mm)	1357	1357	1357	1357	1357	1357
4.12		Coupling height	h10 (mm)	467	467	467	467	467	467
4.19		Overall length	l1 (mm)	5015	5015	5015	5015	5015	5015
4.20		Length to face of forks	l2 (mm)	3795	3795	3795	3795	3795	3795
4.21		Overall width	b1 (mm)	2165	2165	2165	2165	2165	2165
4.22		Fork dimensions	s/e/l (mm)	80/175/1220	80/175/1220	80/175/1220	80/175/1220	80/175/1220	80/175/1220
4.24		Fork carriage width	b3 (mm)	2165	2165	2165	2165	2165	2165
4.31		Ground clearance ,laden,under mast	m1 (mm)	225/205	225/205	225/205	225/205	225/205	225/205
4.32		Ground clearance,centre of wheelbase	m2 (mm)	246/236	246/236	246/236	246/236	246/236	246/236
4.33	Aisle width for pallets 1000×1200 crossways	Ast(mm)	5210	5210	5210	5210	5210	5210	
4.34	Aisle width for pallets 800×1200 lengthways	Ast(mm)	5410	5410	5410	5410	5410	5410	
4.35	Turning radius	Wa (mm)	3350	3350	3350	3350	3350	3350	
Performance Data	5.1	Travel speed,laden/unladen	km/h	14/15	14/15	14/15	14/15	14/15	14/15
	5.2	Lift speed,laden/unladen	m/s	0.29/ 0.34	0.29/ 0.34	0.29/ 0.34	0.27/ 0.34	0.29/ 0.34	0.29/ 0.34
	5.3	lowering speed,laden/unladen	m/s	0.46/0.36	0.46/0.36	0.46/0.36	0.46/0.36	0.46/0.36	0.46/0.36
	5.5	Max.Drawbar pull ,laden/unladen	N	48400	48400	48400	48400	48400	48400
	5.7	Max.Gradient performance,laden/unladen S2 5 min	%	15	15	15	15	15	15
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
E-Motor	6.1	Drive motor rating S2 60 min	kW	2x16.6	2x16.6	2x16.6	2x16.6	2x16.6	2x16.6
	6.2	Lift motor rating at S3 15%	kW	2x25	2x25	2x25	2x25	2x25	2x25
	6.3	Battery standard		Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion
	6.4	Battery voltage,nominal capacity K5	V/Ah	80/1216	80/1216	80/1216	80/1216	80/1216	80/1216
	6.5	Battery weight	kg	857	857	857	857	857	857
		Battery dimensions(l/w/h)	mm	1280/1034/640	1280/1034/640	1280/1034/640	1280/1034/640	1280/1034/640	1280/1034/640
Other Details	8.1	Type of drive control		AC	AC	AC	Permanent Magnet	Permanent Magnet	Permanent Magnet
	8.2	Operating pressure for attachments	Mpa	14	14	14	14	14	14
	8.3	Oil volume for attachments	l/min	74	74	74	74	74	74
	8.4	Sound level at driver's ear(according to EN 12 053)	dB(A)	75	75	75	75	75	75

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