

# NOBLELIFT

2500 - 3500KG



## FE4P25/28/30/35Q

### 4-WHEEL ELECTRIC FORKLIFT



Ergonomic



Powerful  
battery



Easy  
maintenance



Robust  
design



Capacity  
2500-3500kg



High  
performance

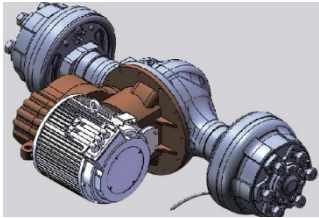
*Why choose between price and quality when you can have both !*

## FE4P25-35Q - P R O D U C T F E A T U R E S

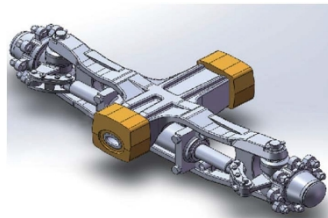
The FE4P25Q-35Q is a highly competitive electric forklift truck that combines the traditional internal combustion forklift with an electric forklift. This model features a very comfortable driving space and ergonomic operation. Thanks to its chassis configuration, it can be fitted with a choice of lead or lithium batteries.

- Equipped with an alternating current (AC) motor, the Q series trucks achieve high performance while being economical. AC motors significantly reduce maintenance costs. The Q series is equipped with a speed sensor and a temperature sensor, considerably improving the reliability of the AC motor.
- The FE4P25Q-35Q truck has a mast system, front and rear axles and chassis similar to internal combustion forklifts. The truck combines the robustness of an internal combustion forklift with the design advantages of an electric forklift, so that the weight of the truck is reduced and the centre of gravity optimised, effectively improving energy consumption.

### // A new ergonomic design



The transmission system uses a horizontal drive axle with a high transmission ratio. The battery is mounted at the bottom of the chassis. The trucks are equipped with a maintenance-free AC motor and a long wheelbase (700 mm) for greater stability.



Equipped with a forged steering axle and shock-absorbing system, the truck offers excellent operator comfort and robustness to extend its service life.



The traction motor is located high up, which makes it possible to make this trolley safe to use outdoors, particularly in damp environments.



The forklift is equipped with a new ergonomic, large-format, bright LED display, which is easy to use and control, providing information on the status of the whole truck in real time.



The large-diameter wheels fitted to Q-series trucks are particularly effective for outdoor use, and provide a very comfortable driving experience.





# FE4P25-35Q - PRODUCT OVERVIEW

## // Intuitive operation and excellent visibility



-Spacious, comfortable cabin, low step and wide floor for excellent accessibility.  
Adjustable seat and suspended armrest for a pleasant, fatigue-free ride.



The Q series trucks have a wide visibility mast, offering the operator precision and comfort.



It is fitted with a parking brake  
This high-performance vehicle can park safely on a 15% gradient with its load.



The Q range of electric trucks is fitted as standard with a new ergonomic steering wheel with a reduced diameter and a steering wheel ball. The truck is also equipped with a front multidirectional valve control, making work more comfortable.

## // Easy access for servicing and maintenance



On the FE4P25Q-35Q model, the drives are positioned high up for efficient ventilation and easy maintenance.



The new ultra-compact chassis is as safe as ever, giving the truck a robust design and a high level of manoeuvrability.



# FE4P25-35Q - THE STRENGTHS OF L I T H I U M

## // The power of lithium (Open lead battery optional)

Model	Standard battery capacity	Optional capacity
FE4P25-28Q	200Ah	300/400Ah
FE4P30Q	200Ah	300/400Ah
FE4P35Q	300Ah	400Ah



All lithium batteries are equipped with an integrated battery management system (BMS) that manages all the important data during charging and discharging. Battery management by the BMS ensures the safety of the battery throughout its life cycle. The batteries have been certified for transport safety (air and sea) and operating standards. The BMS communicates with the battery management system via the CAN network. The CAN protocol enables the battery to be monitored, diagnosed and repaired using specific software.



The Q series trucks are equipped with ultra-fast "minimum 100Ah" chargers, enabling the battery to be fully charged in between 2 and 3 hours. 70% charge in just 45 minutes.



An optional automotive-style recharging gun with rapid charge.



Includes: REMA/Anderson connection.

Valid on models	Standard
Nominal capacity of the battrie	200/300/400Ah
Voltage	80V
Chemical element	Lithium Iron Phosphate
Operating temperature	-20 °C - + 55 °C
Optional charger	80V /65A(80V/100N150N200A)
Loading time	2-3H
Reloading temperature	0°C~55°C -20°C~55°C (with auxiliary heating function)

## // Fast loading

### Recharge your battery anytime, anywhere

The lithium battery's unique fast-charging feature makes it an ideal choice for shift work. Fast charging means you can charge at any time from a workstation. What's more, the lithium battery has no memory of charge cycles, so it won't affect the life of the truck. 70% of the battery's total charge is achieved in just 45 minutes.



## FE4P25-35Q - LITHIUM BATTERY

*(Open lead battery optional)*



### // **Safety and reliability**

#### **Efficient and maintenance-free**

- The lithium battery reduces energy consumption by 35%, does not require a specific charging area and eliminates the cost of battery maintenance.
- The powerful lithium battery system consists of a high-performance, high-safety lithium-iron-phosphate battery, an intelligent battery management system (BMS), a thermal regulation system and an automotive-grade DC voltage control system. The BMS enables communication between the battery and the controller, the truck itself, the charger and the remote management platform, real-time detection of the state of the lithium battery, the operating state of the truck and the charging station, to maximise the safety and reliability of lithium batteries.

### // **Environmentally-friendly**

#### **High performance**

Lithium batteries are more environmentally friendly. There is no acid evaporation, odour or pollution during the charging process. Lithium-ion-powered forklift trucks operate relatively quietly, with zero carbon dioxide emissions. As a result, forklift trucks powered by lithium-ion have a relatively low noise level and zero carbon dioxide emissions. Lithium-ion are an ideal choice for environmentally conscious businesses.

- Each lithium forklift truck requires only one battery, thanks to its quick-charge function, regardless of the number of shifts worked, and a lithium battery lasts three times longer than a lead-acid battery. Lithium batteries are maintenance-free and therefore produce a much higher output than lead-acid batteries.



FE4P25-35Q mast table

2500-3500kg

Designation	Lift height h3 (mm)		Free lift h2 (mm)		Height of retracted mast h1 (mm)		Deployed mast height h4 (mm)		Forward/reverse tilt α / β (°)		Table capacity(kg) C=500mm without side shift	
	FE4P25Q	FE4P28Q	FE4P25Q	FE4P28Q	FE4P25Q	FE4P28Q	FE4P25Q	FE4P28Q	FE4P25Q	FE4P28Q	FE4P25Q	FE4P28Q
Duplex	2000	2000	135	135	1570	1570	2974	3079	6/10	6/10	2500	2800
	2500	2500	135	135	1820	1820	3474	3579	6/10	6/10	2500	2800
	3000	3000	135	135	2070	2070	3974	4079	6/10	6/10	2500	2800
	3300	3300	135	135	2220	2220	4274	4379	6/10	6/10	2500	2800
	3500	3500	135	135	2320	2320	4474	4579	6/10	6/10	2500	2700
	3600	3600	135	135	2370	2370	4574	4679	6/10	6/10	2500	2700
	3700	3700	135	135	2420	2420	4674	4779	6/10	6/10	2500	2700
	4000	4000	135	135	2620	2620	4974	5079	6/6	6/6	2450	2650
	4300	4300	135	135	2770	2770	5274	5379	6/6	6/6	2100	2500
	4500	4500	135	135	2870	2870	5474	5579	6/6	6/6	2000	2250
	5000	5000	135	135	3120	3120	5974	6079	6/6	6/6	1600	2050
Duplex Large free lift	2000	2000	631	491	1570	1570	2968	3079	6/10	6/10	2500	2800
	2500	2500	881	741	1820	1820	3468	3579	6/10	6/10	2500	2800
	3000	3000	1131	991	2070	2070	3968	4079	6/10	6/10	2500	2800
	3300	3300	1281	1141	2220	2220	4268	4379	6/10	6/10	2500	2800
	3500	3500	1381	1241	2320	2320	4468	4579	6/10	6/10	2500	2700
	3600	3600	1431	1291	2370	2370	4568	4679	6/10	6/10	2500	2700
	3700	3700	1481	1341	2420	2420	4668	4779	6/6	6/6	2500	2700
	4000	4000	1681	1541	2620	2620	4968	5079	6/6	6/6	2400	2600
Triplex Large free lift	4000	4000	1056	916	1995	1995	4978	5079	6/6	6/6	2300	2550
	4350	4300	1181	1041	2120	2120	5328	5379	6/6	6/6	2000	2400
	4500	4500	1231	1091	2170	2170	5476	5579	6/6	6/6	1900	2200
	4800	4800	1331	1191	2275	2275	5776	5879	6/6	6/6	1600	2100
	5000	5000	1474	1334	2413	2413	5976	6079	6/6	6/6	1500	2000
	5500	5500	1708	1568	2647	2647	6476	6579	3/6	3/6	1150	1500
	6000	6000	1941	1801	2880	2880	6976	7079	3/6	3/6	800	1100
	6500	6500	2174	2034	3113	3113	7476	7579	3/3	3/3	500	750
Designation	Lift height h3 (mm)		Free lift h2 (mm)		Height of retracted mast h1 (mm)		Deployed mast height h4 (mm)		Forward/reverse tilt α / β (°)		Table capacity(kg) C=500mm without side shift	
	FE4P30Q	FE4P35Q	FE4P30Q	FE4P35Q	FE4P30Q	FE4P35Q	FE4P30Q	FE4P35Q	FE4P30Q	FE4P35Q	FE4P30Q	FE4P35Q
Duplex	2000	2000	135	140	1570	1680	3079	3079	6/10	6/10	3000	3500
	2500	2500	135	140	1820	1930	3579	3579	6/10	6/10	3000	3500
	3000	3000	135	140	2070	2180	4079	4079	6/10	6/10	3000	3500
	3300	3300	135	140	2220	2330	4379	4379	6/10	6/10	3000	3500
	3500	3500	135	140	2320	2430	4579	4579	6/10	6/10	3000	3500
	3600	3600	135	140	2370	2480	4679	4679	6/10	6/10	3000	3500
	3700	3700	135	140	2420	2530	4779	4779	6/10	6/10	2950	3250
	4000	4000	135	140	2620	2730	5079	5079	6/6	6/6	2850	3000
	4300	4300	135	140	2770	2880	5379	5379	6/6	6/6	2700	2800
	4500	4500	135	140	2870	2980	5579	5579	6/6	6/6	2500	2600
	5000	5000	135	140	3120	3230	6079	6079	6/6	6/6	2100	2200
Duplex Large free lift	2000	2000	563	491	1545	1570	3079	3079	6/10	6/10	3000	3500
	2500	2500	813	741	1795	1820	3579	3579	6/10	6/10	3000	3500
	3000	3000	1063	991	2045	2070	4079	4079	6/10	6/10	3000	3500
	3300	3300	1213	1141	2195	2220	4379	4379	6/10	6/10	3000	3500
	3500	3500	1313	1241	2295	2320	4579	4579	6/10	6/10	3000	3500
	3600	3600	1363	1291	2345	2370	4679	4679	6/10	6/10	3000	3500
	3700	3700	1413	1341	2395	2420	4779	4779	6/6	6/6	3000	3500
	4000	4000	1613	1541	2595	2620	5079	5079	6/6	6/6	2850	3200
Triplex Large free lift	4000	4000	988	916	1970	1970	5079	5079	6/6	6/6	2750	3200
	4350	4300	1113	1041	2095	2095	5379	5379	6/6	6/6	2600	3000
	4500	4500	1163	1091	2145	2145	5579	5579	6/6	6/6	2400	3000
	4800	4800	1263	1191	2245	2245	5879	5879	6/6	6/6	2200	2500
	5000	5000	1406	1334	2388	2388	6079	6079	6/6	6/6	2000	2400
	5500	5500	1640	1568	2622	2622	6579	6579	3/6	3/6	1500	1750
	6000	6000	1873	1801	2855	2855	7079	7079	3/6	3/6	1200	1250
	6500	6500	2107	2034	3088	3088	7579	7579	3/3	3/3	800	900

Identification						
1.1	Manufacturer's type designation		FE4P25Q	FE4P28Q	FE4P30Q	FE4P35Q
1.2	Transmission: electric (battery or mains), diesel, petrol, manual		electric			
1.3	Type of operation (manual, pedestrian, standing, seated, order picker)		base			
1.4	Load capacity/rated load	Q(kg)	2500	2800	3000	3500
1.5	Centre of gravity	c(mm)	500			
1.6	Load distance between the centre of the drive axle and the fork	x(mm)	478	483	478	483
1.7	Wheelbase	y(mm)	1620	1700	1800	1800
Weight						
2.1	Operating weight with battery	kg	3600	3860	4070	4480
2.2	Axle load, front/rear laden	kg	5500/600	6010/650	6390/680	7140/840
2.3	Axle load, unladen front / rear	kg	1540/2060	1680/2180	1750/2320	1960/2520
Wheels, chassis						
3.1	Type: solid rubber, superelastic, pneumatic, polyurethane		PPS			
3.2	Front tyre size		7.00-12-12PR	7.00-12-16PR	28X9-15-14PR	28X9-15-14PR
3.3	Rear tyre size		6.00-9-IOPR	6.00-9-12PR	6.50-10-IOPR	6.50-10-10PR
3.4	Number of wheels front/rear (x = drive wheels)		2x/2			
3.5	Front track width	b10(mm)	973		1004	
3.6	Rear track width	b11(mm)	982			
General dimensions						
4.1	Mast / fork carriage tilt front/rear	α/β (°)	6/10			
4.2	Height of retracted mast	h1(mm)	2070			2185
4.3	Free lift	h2(mm)	135	140		145
4.4	Basic lift height	h3(mm)	3000			
4.5	Deployed mast height	h4(mm)	3974	4079		
4.6	Height of protective roof (cab)	h6(mm)	2150			
4.7	Seat height / standing height	h7(mm)	1130			
4.8	Hitch height	h10(mm)	580			
4.9	Total length	l1(mm)	3568	3663	3773	3818
4.10	Length to front of forks	l2(mm)	2498	2593	2703	2748
4.11	Total width	b1(mm)	1150		1226	1226
4.12	Fork dimensions	L/l/h(mm)	40/120/1070	45/125/1070		50/125/1070
4.13	Fork carriage width	b3(mm)	1040	1100		
4.14	Loaded ground clearance under mast	m1(mm)	135			
4.15	Ground clearance, centre of trolley	m2(mm)	150			
4.16	Aisle width for 1000x1200 pallets crosswise	Ast(mm)	3849	3949	4078	4123
4.17	Aisle width for pallets 800x1200 in length	Ast(mm)	3997	4097	4278	4323
4.18	Turning radius	Wa(mm)	2230	2350	2400	2440
Performance						
5.1	Travel speed with/without load	km/h	12/13			11/12
5.2	Lift speed with/without load	m/s	0.26/ 0.34			0.25/0.33
5.3	Lowering speed, loaded/unloaded	m/s	<0.6			
5.4	Maximum gradient performance, loaded/unloaded S2 5 min	%	15/15			13/15
5.5	Service brake		hydraulics			
Electric motor						
6.1	Traction motor power S2 60 min	kW	10			
6.2	Lifting motor output at S3 15%.	kW	12			
6.3	Standard battery		Lithium / Open lead (optional)			
6.4	Battery voltage, nominal capacity K5	V/Ah	Lithium 80/200 option: 80/300/400			Lithium 80/300 option: 80/400
6.5	Battery weight	kg	200		215	280
Further information						
8.1	Type of drive control		AC			
8.2	Accessory operating pressure	Mpa	17.5			
8.3	Oil volume for accessories	l/min	36			
8.4	Acoustic pressure level EN 12 053	dB(A)	74	75	74	75



**NOBLELIFT**