



4-Wheel Electric Cushion Forklift

FE4C25-32

C SERIES 4-WHEEL ELECTRIC CUSHION

ADVANTAGES

The FE4C25-32 cushion tire forklifts are highly efficient, durable Lithium-iron forklifts. They are designed for indoor warehouse applications and other applications with hard smooth floors. The mast system, front/rear axles and chassis are engineered to be tough like an Internal Combustion forklift, but with all the advantages of Lithium-iron. AC drive technology is used to achieve high performance with low operating and maintenance costs. Greatly increase your work productivity with these quiet, very low maintenance, ultrasmooth, lithium-iron forklifts.



HIGHLIGHTS

- ▶ Powerful high quality AC drive system
- ▶ Infinitely variable hydraulic control speeds
- ▶ On-demand fully hydrostatic power steering (FHPS)
- ▶ 4-Way proportional hydraulic control valve
- ▶ Side-shift
- ▶ Multi-function LED Display
- ▶ Deluxe suspension seat
- ▶ Tilt steering column
- ▶ Intelligent Monitoring System (IMS) display indicators
- ▶ CAN-bus communications system
- ▶ On-board self-diagnostics
- ▶ Wireless 4G battery monitoring
- ▶ Operator presence sensing system
- ▶ Safety Blue light, LED rear work light, headlights, and strobe
- ▶ Rear grab bar with horn
- ▶ Tilt cylinder boots
- ▶ All-around front wheel drive
- ▶ Side extraction battery



COMPACT DESIGN

The Noblift Cushion Electric forklift truck is small and flexible with its compact design allowing it to be used in confined indoor space and applications yet with great comfort for operators with its ergonomic design.

HIGH EFFICIENCY

- ▶ Optional different speed modes available to accommodate most demanding applications.
- ▶ Optional large lead acid or Li-ion battery and regenerative braking system increase application hours significantly with single battery charging.
- ▶ High-power oil pump motor and large displacement gear pump are applied to increase lifting and lowering speed, and improve working efficiency.



With its compact design and small turning radius, the truck can operate in confined space.



COMFORT DESIGN

► Ergonomic designed steering wheel with adjustable angle, driver seat adjustable forward and backward, the operator can choose the best and comfortable driving position.

The operator can select different performance modes on LCD to meet different applications.

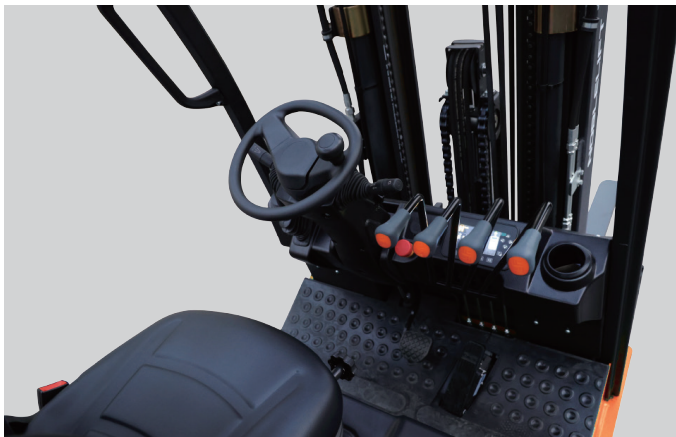
The easy-to-read LCD color display provides information about speed, steer angle & travel direction, battery discharge indicator, hour meter & working mode, which allows the operator to operate easily and efficiently.

Adjustable for operator weight, lumbar support and position, the full-suspension seat includes an ergonomic operator restraint system which helps support the operator during operation.

Spacious foot room is provided for prolonged operator comfort during operation. The integral rubber & plastic pedal pad allows the operator to get on and off the truck comfortably and safely.



Advanced LCD Display



Reduced speed at turning to make sure the safety of the operator and goods from the design point of view.



The rear assist grip with a horn enhances comfort by offering easy horn operation while travelling in reverse.

Optional Lithium battery

Fast charging with battery fully charged in 2-3 hours. The intelligent high frequency charger with automobile charging technology has a working efficiency of more than 95%, which is much higher than the 80% working efficiency of traditional low frequency charger.

Model		Standard	Optional
FE4C25	Lion	76.8V/412Ah	76.8/544Ah
	lead-acid	80V/480Ah	
FE4C32	Lion	76.8V/412Ah	76.8/544Ah
	lead-acid	80V/560Ah	



All lithium-iron batteries are equipped built-in battery management system(BMS) that manages all important data during charging and discharging.

The management of the battery by BMS can ensure the safety of the battery throughout its life cycle.

Lithium-iron batteries have been certified for safe transportation(by air and sea)and operating standards. BMS communicates with the truck management system through CAN. CAN protocol CAN monitor the battery and diagnose and repair the battery through specific software.

FAST CHARGING Efficiency First

The unique fast-charging feature of lithium batteries makes them an ideal choice for multi-shift operation. On comparison with lead-acid batteries, the lithium batteries show greater performance as they can be charged between operations and during breaks, through the support of opportunity charging, the effective working time of equipment with lithium battery can be prolonged without necessity to replace the battery. Additionally, the opportunity charging has no effect on lithium battery, there is no memory effect and fast consecutive capacity reduction as it is the case for lead-acid batteries.

ENVIRONMENT-FRIENDLY Strong Versatility

Lithium batteries are completely sealed, there is no evaporation of electrolyte, forming of explosive gases and chemical smell during charging process. Therefore, the lithium batteries are ideal for use in applications with environmental concerns, such as food processing, chemical and pharmaceutical industries.

SAFETY High Reliability

The lithium battery is using LiFePO4 chemistry (LFP), which is stable and safe. Each battery is equipped with integrated Battery Management System (BMS), which controls various parameters of the cells during charging and discharging operations making the use of lithium batteries safe, reliable and long lasting.



EASY MAINTENANCE

Easy-removable of side panels enables easy service and maintenance of various systems.



The battery compartment is equipped with a side battery removal assembly for easy removal and replacement.



Innovative dual-door structure, with one door at left side and right side of the truck respectively. enables easy maintenance of oil pump motor, oil pump, and electric control of the truck with good water proof and dust proof performance.



Standard equipped tilt cylinder boot to protect it from the environments and best reliability.



Brake fluid can be added very conveniently by opening the shield cover and oil tank cover.

SAFETY & RELIABILITY

Safety and reliability are always the focus of Noblift R&D when we are dedicated to supply products to our customers, Noblift pays great attention to the details and main points to ensure the best productivity from our trucks.



Heavy-duty steel chassis, axles, mast and overhead guard deliver high strength and stability for high lifting heights and heavy loads.



Intelligent buffering when descending to the ground, effectively protects the ground and cargo from damages.



Operator's safety belt restraint warning system is standard to ensure the safety of the operator.



Equipped with LED lamps: LED rear work lights, headlights, strobe and safety blue light. Bright light with low power consumption provides excellent visibility.



Compared with other N series 4-wheel Electric counter balance forklift, this model is smaller in size and more flexible, which is more suitable for working in confined areas.



The key electric components such as controllers, displays, main contactors are all well-known brands in the industry to ensure the best performance and reliability. Efficient control system of high-frequency MOSFET integrated controller guarantees smooth and accurate control on running and lifting, and superior speed regulation performance, with regenerative braking, reverse braking, anti-slipping on slope and other functions.



Mast Table FE4C 25-32

Designation	Lift height h3 in(mm)		Free Lift h2 in(mm)		Closed mast height h1 in(mm)		Extended mast height h4 in(mm)		Tilt forward/backward $\alpha / \beta(^{\circ})$		Capacity table(kg) C=24 without sideshift, single pneumatic tyres	
	FE4C25	FE4C32	FE4C25	FE4C32	FE4C25	FE4C32	FE4C25	FE4C32	FE4C25	FE4C32	FE4C25	FE4C32
Two-stage ZT	2500	2500	135	135	1820	1820	3445	3628	6/8	6/8	2270	2950
	3000	3000	135	135	2070	2070	3445	4128	6/8	6/8	2270	2950
	3300	3300	135	135	2220	2220	3945	4428	6/8	6/8	2270	2950
	3500	3500	135	135	2320	2320	4445	4628	6/8	6/8	2270	2950
	3700	3700	135	135	2420	2420	4645	4828	6/8	6/8	2270	2950
	4000	4000	135	135	2620	2620	4945	5128	6/6	6/6	2270	2950
	4300	4300	135	135	2770	2770	5245	5428	6/6	6/6	2270	2910
	4500	4500	135	135	2870	2870	5445	5628	6/6	6/6	2230	2880
	5000	5000	135	135	3120	3120	5945	6128	6/6	6/6	2080	2750
Two-stage ZZ	2500	2500	875	737	1820	1820	3445	3628	6/8	6/8	2270	2950
	3000	3000	1125	987	2070	2070	3945	4128	6/8	6/8	2270	2950
	3300	3300	1275	1137	2220	2220	4245	4428	6/8	6/8	2270	2950
	3500	3500	1375	1237	2320	2320	4445	4628	6/8	6/8	2270	2950
	3700	3700	1475	1337	2420	2420	4645	4828	6/8	6/8	2270	2950
	4000	4000	1675	1537	2620	2620	4945	5128	6/6	6/6	2270	2950
Three-stage DZ	4000	4000	935	862	1880	1945	4945	5128	6/6	6/6	2270	2950
	4350	4350	1060	987	2005	2070	5295	5478	6/6	6/6	2270	2900
	4500	4500	1110	1037	2055	2120	5445	5628	6/6	6/6	2220	2860
	4800	4800	1210	1137	2155	2220	5745	5928	6/6	6/6	2150	2810
	5000	5000	1285	1280	2230	2363	5945	6128	6/6	6/6	2060	2740
	5500	5500	1460	1514	2405	2597	6445	6628	6/6	6/6	1840	2560
	6000	6000	1660	1747	2605	2830	6945	7128	6/6	6/6	1600	1900
Four-stage DZ	6100	6100	1190	1052	2135	2135	7045	7228	3/5	3/6	1600	1900
	6600	6600	1315	1777	2260	2260	7545	7728	3/5	3/6	1350	1500
	7000	7000	1495	1357	2420	2420	7945	8128	3/5	3/6	800	950

Free lifting height without stop shelf + 10.5(266mm)

Four lifting height without stop shelf + 17.7(450mm)

C SERIES 4-WHEEL ELECTRIC CUSHION

Identification	1.1	Manufacture(abbreviation)				Noblelift	Noblelift
	1.2	Manufacturer's type designation				FE4C25	FE4C32
	1.3	Drive:electric(battery or mains),diesel,petrol gas>manual)				electric	electric
	1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)				seated	seated
	1.5	Load capacity/rated load	Q	lb(kg)		5000(2270)	6500(2950)
	1.6	Load centre distance	C	in(mm)		24(600)	24(600)
	1.8	Load distance,centre of drive axle to fork	x	in(mm)		17.3(440)	17.5(445)
	1.9	wheelbase	y	in(mm)		51(1295)	55(1395)
Weights	2.1	Service weight incl. battery(see line 6.5)	kg	lb(kg)		9405(4350)	10175(4850)
	2.2	Axle loading ,laden front/rear	kg	lb(kg)		12705/2200(5850/1000)	14245/2530(6550/1300)
	2.3	Axle loading,unladen front/rear	kg	lb(kg)		3465/5940(1650/2700)	3905/6270(1800/3050)
Wheels、Chassis	3.1	Type:solid rubber,superelastic,pneumatic,polyurethane				solid rubber	solid rubber
	3.2	Tyres size,front				21×7-15	21×8-15
	3.3	Tyres size,rear				16x6-10.5	16x6-10.5
	3.5	Wheels,number front/rear(×=driven wheels)				2×/2	2×/2
	3.6	Track width,front	b10	in(mm)		37.7(882)	35.5(902)
	3.7	Track width,rear	b11	in(mm)		36.3(922)	36.3(922)

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Basic Dimensions	4.1	Mast/fork carriage tilt forward/backward	α/β	°	6/8	6/8
	4.2	lowered mast height	h1	in(mm)	85.4(2170)	85.4(2170)
	4.3	Free lift	h2	in(mm)	4.7(120)	4.7(120)
	4.4	Lift height	h3	in(mm)	118.1(3000)	118.1(3000)
	4.5	Extended mast height	h4	in(mm)	156.6(3977)	160.6(4079)
	4.7	Overhead load guardheight	h6	in(mm)	88.6(2280)	88.6(2280)
	4.8	Seat height/standing height	h7	in(mm)	49.2(1250)	49.2(1250)
	4.12	Coupling height	h10	in(mm)	11.6(295)	11.6(295)
	4.19	Overall length	l1	in(mm)	127(3225)	133.3(3385)
	4.20	Length to face of forks	l2	in(mm)	84.8(2155)	91.4(2315)
	4.21	Overall width	b1	in(mm)	42.5(1080)	42.5(1135)
	4.22	Fork dimensions	s/e/l	in(mm)	1.6/4.7/42.1(40/120/1070)	1.6/4.9/42.1(45/125/1070)
	4.24	Fork carriage width	b3	in(mm)	40.9(1040)	43.3(1100)
	4.31	Ground clearance ,laden,under mast	m1	in(mm)	4.3(110)	4.3(110)
	4.32	Ground clearance,centre of wheelbase	m2	in(mm)	4.7(120)	4.7(120)
	4.33	Aisle width for pallets 1000×1200 crossways	Ast	in(mm)	141.3(3590)	145.5(3755)
	4.34	Aisle width for pallets 800×1200 lengthways	Ast	in(mm)	149.2(3790)	153.3(3955)
	4.35	Turning radius	Wa	in(mm)	76.8(1950)	80.7(2050)
Performance Datas	5.1	Travel speed,laden/unladen		mph(km/h)	9.3/9.3(15/15)	9.3/9.3(15/15)
	5.2	Lift speed,laden/unladen		fpm(mm/s)	67/79(340/400)	67/79(340/400)
	5.3	lowering speed,laden/unladen		fpm(mm/s)	< 118(<0.6)	< 118(<0.6)
	5.5	Drawbar pull ,laden/unladen S2 60 min		lbf(N)	7260/5060(3300/2300)	8360/6160(3800/2800)
	5.7	Max.Gradient performance,laden/unladen S2 5 min		%	15/20	15/20
	5.10	Service brake			Hydraulic	Hydraulic
E-Motor	6.1	Drive motor rating S2 60 min		hp(kW)	16.1(12)	16.1(12)
	6.2	Lift motor rating at S3 15%		hp(kW)	21.4(16)	21.4(16)
	6.3	Battery standard			Lion/lead-acid	Lion/lead-acid
	6.4	Battery voltage,nominal capacity K5		V/Ah	Lion 76.8/412(76.8/544) lead-acid (80/480)	Lion 76.8/412(76.8/544) lead-acid (80/560)
		Battery weight		lb(kg)	Lion 704(320) lead-acid 2794(1270)	Lion 704(320) lead-acid 3212(1460)
	6.5	Battery dimensions l/w/h		in(mm)	Lion 38.6/24.8/23.8(980/630/605) lead-acid 38.6/30.9/23.8(980/785/610)	Lion 38.6/24.8/23.8(980/630/605) lead-acid 38.6/35.3/23.8(980/885/610)
Other Details	8.1	Type of drive control			AC	AC
	8.2	Operating pressure for attachments		psi(bar)	2538(175)	2538(175)
	8.3	Oil volume for attachments		l/min	570(36)	570(36)
	8.4	Sound level at driver's ear according to EN 12 053		dB(A)	73	73

Get in touch for sales & enquiries

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