

COUNTERBALANCE FORKLIFT

FE4P16-20Q
4-Wheel Electric Forklift

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OVERVIEW

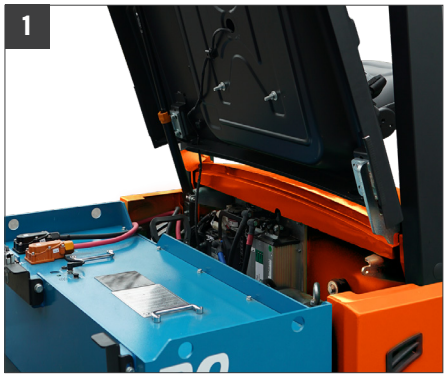
BUILT FOR BETTER.

The FE4P16-20Q is a four-wheel electric forklift lifting 1,600–2,000kg, developed from Noblelift's proven E and N series to bring their best features together for light and medium-duty work. A lowered centre of gravity and a low 2,080mm height let it enter lifts and work confined spaces with ease and stability, while a maintenance-free AC drivetrain delivers quiet, smooth, reliable performance. Ready for lithium power, it pairs comfortable, ergonomic hydraulic controls with a wide-view mast and full LED lighting for confident handling day or night — a comfortable, efficient, low-upkeep forklift built for busy indoor sites.



Key Features

1



AC maintenance-free drive motor

A powerful AC drive motor with no carbon brushes to replace, backed by speed and temperature sensors for smooth, reliable, low-maintenance performance.

2



Low centre of gravity

The battery sits low in the frame and the drive axle runs in parallel, giving a low 2,080mm height and high stability for lifts, low doorways and confined spaces.

3



Quiet, low-vibration design

A low-noise gear pump, full hydraulic power steering and a shock-absorbing steer axle keep operation quiet and smooth while protecting the truck and extending its service life.

4



Safer, easier electromagnetic brake

Car-style controls and electromagnetic braking make stopping smoother and more comfortable, with a one-touch brake button that cuts power instantly.

5



Ergonomic hydraulic controls

A wide-view mast, easy right-hand control levers and a steering wheel with knob make the truck comfortable and intuitive to operate all shift.



INTELLIGENT SAFE AND RELIABLE.

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Comprehensive safety protection.



FEATURE	
Multi-function display	Shows fault alarms and low-battery reminders, with high, medium and low speed modes.
Front multi-way valve controls	A front-mounted multi-way valve makes hydraulic operation more comfortable.
Side-extraction battery	The battery can be drawn out and swapped with another forklift for continuous operation.
Full LED lighting	Standard LED headlamps, turn lamps, rear combination and warning lamps for clear visibility at night with low power draw.
One-piece steel body panels	The hood and side panels are each formed from single steel plates for a simple, robust, tidy finish.
Steer axle shock absorption	Cushions the steer axle to protect the truck and prolong its service life.
Suspended brake & stepless speed	A car-style suspended brake system and stepless speed change make driving smooth and easy.
Intelligent lowering buffer	Softly cushions the forks as they reach the ground to protect floors and cargo.

Type sheet acc. to VDI 2198

Identification			
Manufacturer's type designation		FE4P16QC	FE4P20QC
Drive		electric	electric
Type of operation		seated	seated
Load capacity/rated load	Q(kg)	1600	2000
Load centre distance	c(mm)	500	500
Load distance, centre of drive axle to fork	x(mm)	381	386
Wheelbase	y(mm)	1295	1395
Weights			
Service weight incl. battery	kg	2940	3180
Axle loading, laden front/rear	kg	4050/490	4670/510
Axle loading, unladen front/rear	kg	1170/1770	1270/1910
Wheels Chassis			
Type:solid rubber, superelastic,pneumatic, polyurethane		pneumatic/pneumatic	pneumatic/pneumatic
Tyres size, front		6.50-10-10PR	6.50-10-10PR
Tyres size, rear		5.00-8-10PR	5.00-8-10PR
Wheels, number front/rear(×=driven wheels)		2×/2	2×/2
Track width, front	b10(mm)	980	980
Track width, rear	b11(mm)	920	920
Dimensions			
Mast/fork carriage tilt forward/backward	α/β(°)	6/10	6/10
Lowered mast height	h1(mm)	2053	2053
Free lift	h2(mm)	130	130
Extended mast height	h3(mm)	3000	3000
Extended mast height	h4(mm)	3982	3982
Overhead load guardheight	h6(mm)	2075	2075
Seat height/standing height	h7(mm)	1065	1065
Coupling height	h10(mm)	530	530
Overall length	l1(mm)	3050	3050
Length to face of forks	l2(mm)	2130	2130
Overall width	b1(mm)	1150	1150
Fork dimensions	s/e/l(mm)	35/100/920	40/100/1070
Fork carriage width	b3(mm)	1040	1040
Ground clearance, laden, under mast	m1(mm)	98	98
Ground clearance, centre of wheelbase	m2(mm)	100	100
Aisle width for pallets 1000×1200 crossways	Ast(mm)	3571	3576
Aisle width for pallets 800×1200 lengthways	Ast(mm)	3771	3776
Turning radius	Wa(mm)	1990	1990
Performance Data			
Travel speed,laden/unladen	km/h	12/13	11/13
Lift speed,laden/unladen	m/s	0.27/0.35	0.25/0.35
lowering speed,laden/unladen	m/s	0.52/0.42	0.52/0.42
Max.Gradient performance,laden/unladen S2 5 min	%	12/15	12/15
Service brake		Hydraulic	Hydraulic
E-Motor			
Drive motor rating S2 60 min	KW	6.8	6.8
Lift motor rating at S3 15%	KW	8.6	8.6
Battery standard		DIN	DIN
Battery voltage,nominal capacity K5	V/Ah	Pb-acid:48/360(48/400,48/460) Li:51.2/206(277/412)	Pb-acid:48/400(48/460) Li:51.2/206(277/412)
Battery weight	kg	Lion 320 lead-acid 1270	Lion 320 lead-acid 1460
Battery dimensions l/w/h	mm	Lion 980/630/605 lead-acid 980/785/610	Lion 980/630/605 lead-acid 980/885/610
Other			
Type of drive control		AC	AC
Operating pressure for attachments	Mpa	14.5	14.5
Oil volume for attachments	l/min	30	30
Sound level at driver's ear according to EN 12 053	dB(A)	72	72

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FE3D16-20N1 Mast Data Sheet

Designation	Lift height h3(mm)	Free Lift height h2(mm)	Closed mast height h1(mm)	Extended mast height h4(mm)	Tilt forward/ backward α/β(°)	Capacity table(kg) C=500mm without sideshift single tyres	
						FE4P16QC	FE4P20QC
Two-stage ZT	2500	110	1803	3482	6/10	1600	2000
	2700	110	1903	3682	6/10	1600	2000
	3000	110	2053	3982	6/10	1600	2000
	3300	110	2203	4282	6/10	1600	2000
	3500	110	2303	4482	6/10	1600	2000
	3700	110	2403	4682	6/10	1600	1900
	4000	110	2603	4982	6/6	1500	1800
	4300	110	2753	5282	6/6	1400	1600
	4500	110	2853	5482	6/6	1350	1500
	5000	110	3128	5982	6/6	900	1100
Two-stage ZZ	2500	853	1803	3482	6/10	1600	2000
	2700	953	1903	3682	6/10	1600	2000
	3000	1103	2053	3982	6/10	1600	2000
	3300	1253	2203	4282	6/10	1600	2000
	3500	1353	2303	4482	6/10	1600	2000
	3700	1453	2403	4682	6/10	1600	1900
	4000	1653	2603	4982	6/6	1500	1800
Three-stage DZ	4000	1028	1978	4980	6/6	1500	1800
	4300	1153	2103	5280	6/6	1400	1600
	4500	1203	2153	5480	6/6	1300	1500
	4800	1303	2253	5780	6/6	1000	1200
	5000	1403	2353	5980	6/6	900	1100
	5500	1553	2503	6480	3/6	800	900
	6000	1753	2703	6980	3/6	700	800



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LITHIUM BATTERY

LONG LASTING AND SAFE LITHIUM POWER.

NOBLELIFT uses LiFePO4 chemistry — the longest-lasting and safest lithium battery chemistry available. Every battery is equipped with a Battery Management System (BMS), a thermal management system, and an intelligent control system. The BMS monitors all charging and discharging data to keep the battery safe throughout its life cycle.

Our lithium battery packs are backed by a 5-year / 10,000 hour warranty.

Advantages of Lithium Power

	LEAD-ACID BATTERY	LITHIUM BATTERY
PRODUCTIVITY	Lower fleet availability — work is interrupted because the battery must be fully charged before next use.	100% fleet availability — opportunity charging tops the battery up between use.
SERVICE LIFE	Periodic battery replacement.	Lasts up to 3 times longer and doesn't need replacing.
ONGOING MAINTENANCE	Outsourced or in-house maintenance personnel required.	No maintenance cost.
CHARGE DURATION	8–10 hours — 2 or more batteries per machine.	2–3 hours — 1 battery per machine.
BATTERY ROOM	Requires an expensive, ventilated battery room.	No battery room needed.
SAFETY	Releases hydrogen while charging (explosion risk); acid burns possible during maintenance.	No dangerous substances.
POWER SAVINGS	Power loss.	No power loss — reduces energy consumption by up to 35%.



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SERVICING, PARTS & SUPPORT.

At Noblelift, we understand that reliable servicing and maintenance are essential to keeping your operation running smoothly. That's why we offer comprehensive support tailored to the needs of your Noblelift fleet. With our commitment to excellence and customer satisfaction, you can trust us to keep your equipment operating at peak performance.

Through our nationwide New Zealand network we can provide:

NATIONAL TECHNICAL SUPPORT

Help by phone or on site, nationwide.

FULLY STOCKED PARTS

Genuine parts held in stock across NZ.

MAINTENANCE & SERVICE CONTRACTS

Flexible plans built around your operation.

DEDICATED SERVICE TEAM

Factory-trained technicians with the product knowledge and diagnostic tools to keep your fleet running.

GENUINE PARTS & ACCESSORIES

A full inventory of genuine Noblelift parts, ready when you need them.

BACK-UP MACHINERY

A rental and support fleet on standby to keep you moving through any downtime.

CUSTOMER TRAINING & SUPPORT

Hands-on operator and maintenance training so your team works safely and efficiently.

SCHEDULED MAINTENANCE PROGRAMS

Proactive, tailored servicing that catches issues early and prevents costly breakdowns.

24/7 EMERGENCY SUPPORT

Round-the-clock help to get you back up and running fast.



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Talk to our team for sales and enquires

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Noblelift New Zealand.