

FE4P16-35N

Four wheel Electric Forklift

 **Optional cold storage special configuration**

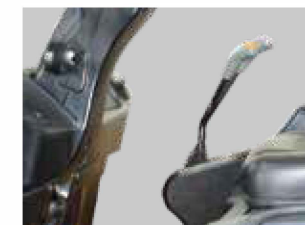
 **Ready for Lithium power**

ADVANTAGES

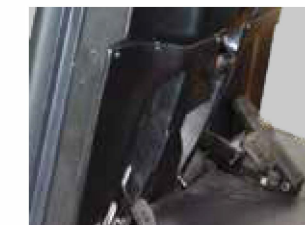
- Compact and Elegant Design
- Excellent Visibility
- Ergonomics Details
- High Stability
- Easy Maintenance
- Reliability and Safety
- Comfortable Operation
- Environmental-friendly
- High Efficiency and Low-Energy Consumption



Rear hand holder with horn function. (Optional)



Hydraulic operating handle on the right side.



Foot-type parking brake system.



Big LED display.

Reliability and Safety

Motor controllers, contactors, power switch, emergency switch, display, accelerators and other key electrical components adopt international famous brand.

Advanced AC high frequency integrated MOSFET controller and CAN-bus technology.

High frequency MOSFET integrated controller ensures smooth and accurate driving and lifting, excellent acceleration, motor and controller performance matching delivers safety and reliability such as regenerative braking and reverse connection as well ramp anti-slipping.

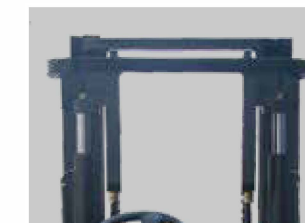
Operation sequence protection and electronic self-protection function, Emergency power off switch as standard configuration, meets the European safety norms.



Excellent ergonomic design.



Energy-saving.



Excellent visibility thanks to optimized.



Graceful arc design.

High Efficiency and Energy-saving

Different speed mode to choose for different applications under different environments Standard DC converter is balanced using batteries, extending battery life.

High efficiency AC power system, complete protection, comes with speed sensor, temperature sensor, greatly improves reliability and life expectancy.

Special tire patterns for electric forklifts, energy-saving more than 10% for driving. (Optional)

Easy maintenance and high stability

A+B. The fully-openable top seat cover and the side-openable construction makes battery-maintenance easier and faster for regular maintenance. For multi-shift operations, the battery can be easily replaced from the side by a manual pallet truck or electric pallet truck easily and safely, no crane, forklift or other special tools required for battery replacement. (Optional)

C. The fully sealed cover for the controller at the rear counter-weight part ensures high protection of the controller and other electric components against the dust and water, and the openable cover is easy and fast for maintenance.

D. Equipped with big LED display with error code and false operation warning can easily monitor the running condition of the forklift.

E. Drive motor is arranged paralleled as international leaders do, the battery is located at the bottom of the chassis of the forklift which gives great stability with low gravity center.



Electric Forklift

| Mast Table FE4P16-18N | | | | | | | |
|-----------------------|-------------|-----------|--------------------|----------------------|--------------------------|--|---------|
| Designation | Lift height | Free Lift | Closed mast height | Extended mast height | Tilt forward/backward | Capacity table(kg) C=500mm without sideshift, single solid tyres | |
| | h3 (mm) | h2 (mm) | h1 (mm) | h4 (mm) | $\alpha/\beta(^{\circ})$ | FE4P16N | FE4P18N |
| Two-stage ZT | 2500 | 125 | 1760 | 3387 | 6/10 | 1600 | 1750 |
| | 2700 | 125 | 1860 | 3587 | 6/10 | 1600 | 1750 |
| | 3000 | 125 | 2010 | 3887 | 6/10 | 1600 | 1750 |
| | 3300 | 125 | 2160 | 4187 | 6/10 | 1600 | 1750 |
| | 3500 | 125 | 2260 | 4387 | 6/10 | 1600 | 1750 |
| | 3700 | 125 | 2360 | 4587 | 6/10 | 1600 | 1750 |
| | 4000 | 125 | 2560 | 4887 | 6/6 | 1500 | 1600 |
| | 4300 | 125 | 2710 | 5187 | 6/6 | 1400 | 1500 |
| 4500 | 125 | 2810 | 5387 | 6/6 | 1350 | 1450 | |
| 5000 | 125 | 3085 | 5887 | 6/6 | 1000 | 1100 | |
| Two-stage ZZ | 2500 | 807 | 1760 | 3473 | 6/10 | 1600 | 1750 |
| | 2700 | 907 | 1860 | 3673 | 6/10 | 1600 | 1750 |
| | 3000 | 1057 | 2010 | 3973 | 6/10 | 1600 | 1750 |
| | 3300 | 1207 | 2160 | 4273 | 6/10 | 1600 | 1750 |
| | 3500 | 1307 | 2260 | 4473 | 6/10 | 1600 | 1750 |
| | 3700 | 1407 | 2360 | 4673 | 6/10 | 1600 | 1750 |
| | 4000 | 1607 | 2560 | 4973 | 6/6 | 1500 | 1600 |
| | 4300 | 1757 | 2710 | 5273 | 6/6 | 1400 | 1450 |
| 4500 | 1857 | 2810 | 5473 | 6/6 | 1350 | 1450 | |
| 5000 | 2132 | 3085 | 5973 | 6/6 | 1000 | 1100 | |
| Three-stage DZ | 4000 | 1386 | 1955 | 4980 | 6/6 | 1500 | 1600 |
| | 4350 | 1510 | 2080 | 5330 | 6/6 | 1400 | 1500 |
| | 4500 | 1560 | 2130 | 5480 | 6/6 | 1350 | 1450 |
| | 4800 | 1660 | 2230 | 5780 | 6/6 | 1200 | 1310 |
| | 5000 | 1760 | 2330 | 5980 | 6/6 | 1000 | 1100 |
| | 5500 | 1910 | 2480 | 6480 | 3/6 | 800 | 900 |
| 6000 | 2110 | 2680 | 6980 | 3/6 | 600 | 700 | |

| Mast Table FE4P20-25N | | | | | | | |
|-----------------------|-------------|-----------|--------------------|----------------------|--------------------------|--|---------|
| Designation | Lift height | Free Lift | Closed mast height | Extended mast height | Tilt forward/backward | Capacity table(kg) C=500mm without sideshift, single solid tyres | |
| | h3 (mm) | h2 (mm) | h1 (mm) | h4 (mm) | $\alpha/\beta(^{\circ})$ | FE4P20N | FE4P25N |
| Two-stage ZT | 2000 | 120 | 1545 | 2977 | 6/10 | 2000 | 2500 |
| | 2500 | 120 | 1795 | 3277 | 6/10 | 2000 | 2500 |
| | 3000 | 120 | 2045 | 3977 | 6/10 | 2000 | 2500 |
| | 3300 | 120 | 2195 | 4277 | 6/10 | 2000 | 2500 |
| | 3500 | 120 | 2295 | 4477 | 6/10 | 2000 | 2500 |
| | 3600 | 120 | 2345 | 4577 | 6/10 | 2000 | 2500 |
| | 3700 | 120 | 2395 | 4677 | 6/6 | 2000 | 2500 |
| | 4000 | 120 | 2595 | 5077 | 6/6 | 2000 | 2500 |
| | 4300 | 120 | 2745 | 5377 | 6/6 | 1850 | 2100 |
| | 4500 | 120 | 2845 | 5577 | 6/6 | 1700 | 2000 |
| 5000 | 120 | 3145 | 6077 | 6/6 | 1400 | 1600 | |
| 5500 | 120 | 3395 | 6577 | 3/6 | 1050 | 1200 | |
| 6000 | 120 | 3645 | 7177 | 3/6 | 700 | 800 | |
| Two-stage ZZ | 2000 | 558 | 1545 | 2971 | 6/10 | 2000 | 2500 |
| | 2500 | 808 | 1795 | 3471 | 6/10 | 2000 | 2500 |
| | 3000 | 1058 | 2045 | 3971 | 6/10 | 2000 | 2500 |
| | 3300 | 1208 | 2195 | 4271 | 6/10 | 2000 | 2500 |
| | 3500 | 1308 | 2295 | 4471 | 6/10 | 2000 | 2500 |
| | 3600 | 1358 | 2345 | 4571 | 6/10 | 2000 | 2500 |
| | 3700 | 1408 | 2395 | 4671 | 6/6 | 2000 | 2500 |
| | 4000 | 1608 | 2595 | 4971 | 6/6 | 2000 | 2500 |
| | 4300 | 1758 | 2745 | 5271 | 6/6 | 1850 | 2100 |
| | 4500 | 1858 | 2845 | 5471 | 6/6 | 1700 | 2000 |
| 5000 | 2158 | 3145 | 5971 | 6/6 | 1400 | 1600 | |
| 5500 | 2408 | 3395 | 6471 | 3/6 | 1050 | 1150 | |
| 6000 | 2658 | 3645 | 6971 | 3/6 | 700 | 800 | |
| Three-stage DZ | 4000 | 983 | 1970 | 4981 | 6/6 | 1900 | 2300 |
| | 4300 | 1108 | 2095 | 5331 | 6/6 | 1700 | 2000 |
| | 4500 | 1158 | 2145 | 5479 | 6/6 | 1600 | 1900 |
| | 4800 | 1258 | 2245 | 5779 | 6/6 | 1400 | 1600 |
| | 5000 | 1401 | 2388 | 5979 | 6/6 | 1300 | 1500 |
| | 5500 | 1635 | 2622 | 6479 | 3/6 | 1000 | 1150 |
| 6000 | 1868 | 2855 | 6979 | 3/6 | 700 | 800 | |
| 6500 | 2102 | 3088 | 7479 | 3/3 | 400 | 500 | |

| Mast Table FE4P30-35N | | | | | | | |
|-----------------------|-------------|-----------|--------------------|----------------------|--------------------------|--|---------|
| Designation | Lift height | Free Lift | Closed mast height | Extended mast height | Tilt forward/backward | Capacity table(kg) C=500mm without sideshift, single solid tyres | |
| | h3 (mm) | h2 (mm) | h1 (mm) | h4 (mm) | $\alpha/\beta(^{\circ})$ | FE4P30N | FE4P35N |
| Two-stage ZT | 2000 | 125 | 1545 | 2977 | 6/10 | 3000 | 3500 |
| | 2500 | 125 | 1795 | 3277 | 6/10 | 3000 | 3500 |
| | 3000 | 125 | 2045 | 3977 | 6/10 | 3000 | 3500 |
| | 3300 | 125 | 2195 | 4277 | 6/10 | 3000 | 3500 |
| | 3500 | 125 | 2295 | 4477 | 6/10 | 3000 | 3500 |
| | 3600 | 125 | 2345 | 4577 | 6/10 | 3000 | 3500 |
| | 3700 | 125 | 2395 | 4677 | 6/6 | 2950 | 3250 |
| | 4000 | 125 | 2595 | 5077 | 6/6 | 2850 | 3000 |
| | 4300 | 125 | 2745 | 5377 | 6/6 | 2700 | 2800 |
| | 4500 | 125 | 2845 | 5577 | 6/6 | 2500 | 2600 |
| 5000 | 125 | 3145 | 6077 | 6/6 | 2100 | 2200 | |
| Two-stage ZZ | 2000 | 563 | 1545 | 2971 | 6/10 | 3000 | 3500 |
| | 2500 | 813 | 1795 | 3471 | 6/10 | 3000 | 3500 |
| | 3000 | 1063 | 2045 | 3971 | 6/10 | 3000 | 3500 |
| | 3300 | 1213 | 2195 | 4271 | 6/10 | 3000 | 3500 |
| | 3500 | 1313 | 2295 | 4471 | 6/10 | 3000 | 3500 |
| | 3600 | 1363 | 2345 | 4571 | 6/10 | 3000 | 3500 |
| | 3700 | 1413 | 2395 | 4671 | 6/6 | 3000 | 3500 |
| | 4000 | 1613 | 2595 | 4971 | 6/6 | 2850 | 3200 |
| | 4300 | 1763 | 2745 | 5271 | 6/6 | 2700 | 2850 |
| | 4500 | 1863 | 2845 | 5471 | 6/6 | 2500 | 2600 |
| 5000 | 2163 | 3145 | 5971 | 6/6 | 2100 | 2200 | |
| Three-stage DZ | 4000 | 988 | 1970 | 4981 | 6/6 | 2750 | 3200 |
| | 4300 | 1113 | 2095 | 5331 | 6/6 | 2600 | 3000 |
| | 4500 | 1163 | 2145 | 5479 | 6/6 | 2400 | 3000 |
| | 4800 | 1263 | 2245 | 5779 | 6/6 | 2200 | 2500 |
| | 5000 | 1406 | 2388 | 5979 | 6/6 | 2000 | 2400 |
| | 5500 | 1640 | 2622 | 6479 | 3/6 | 1500 | 1750 |
| 6000 | 1873 | 2855 | 6979 | 3/6 | 1200 | 1250 | |
| 6500 | 2107 | 3088 | 7479 | 3/3 | 800 | 900 | |

| Type sheet for industrial truck acc. to VDI 2198 | | | | | | | 1KG=2.2LB 1INCH=25.4MM | |
|--|---|--------------------------|--------------------|----------------|----------------------------|----------------------------|------------------------|----------------|
| Identification | | | | | | | | |
| 1.2 | Manufacturer's type designation | | FE4P16N | FE4P18N | FE4P20N | FE4P25N | FE4P30N | FE4P35N |
| 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) | 1600 | 1750 | 2000 | 2500 | 3000 | 3500 |
| 1.6 | Load centre distance | c(mm) | 500 | 500 | 500 | 500 | 500 | 500 |
| 1.8 | Load distance,centre of drive axle to fork | x(mm) | 381 | 381 | 463 | 468 | 468 | 468 |
| 1.9 | wheelbase | y(mm) | 1360 | 1360 | 1500 | 1500 | 1650 | 1650 |
| Weights | | | | | | | | |
| 2.1 | Service weight incl. battery | kg | 3120 | 3260 | 4010 | 4260 | 4890 | 5270 |
| 2.2 | Axle loading ,laden front/rear | kg | 3950/770 | 4420/690 | 5260/750 | 6020/750 | 7070/820 | 7750/1020 |
| 2.3 | Axle loading,unladen front/rear | kg | 1470/1650 | 1490/1770 | 1900/2110 | 1940/2320 | 2210/2680 | 2190/3080 |
| Wheels - Chassis | | | | | | | | |
| 3.1 | Type:solid rubber,superelectric,pneumatic,polyurethane | | pneumatic | pneumatic | pneumatic | pneumatic | pneumatic | Superelastic |
| 3.2 | Tyres size,front | | 6.5-10-10PR | 6.5-10-10PR | 23×9-10-18PR | 23×9-10-18PR | 23×9-10-18PR | 23×10-12 |
| 3.3 | Tyres size,rear | | 5.00-8-10PR | 5.00-8-10PR | 18×7-8-14PR | 18×7-8-14PR | 18×7-8-14PR | 200/50-10 |
| 3.5 | Wheels,number front/rear(x=driven wheels) | | 2×/2 | 2×/2 | 2×/2 | 2×/2 | 2×/2 | 2×/2 |
| 3.6 | Track width,front | b10(mm) | 970 | 970 | 1040 | 1040 | 1040 | 1058 |
| 3.7 | Track width,rear | b11(mm) | 920 | 920 | 950 | 950 | 960 | 960 |
| Basic Dimensions | | | | | | | | |
| 4.1 | Mast/fork carriage tilt forward/backward | $\alpha/\beta(^{\circ})$ | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 |
| 4.2 | lowered mast height | h1(mm) | 2010 | 2010 | 2045 | 2045 | 2045 | 2045 |
| 4.3 | Free lift | h2(mm) | 125 | 125 | 120 | 120 | 125 | 125 |
| 4.4 | Lift height | h3(mm) | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| 4.5 | Extended mast height | h4(mm) | 3887 | 3887 | 3977 | 3977 | 3977 | 3977 |
| 4.7 | Overhead load guardheight | h6(mm) | 2200 | 2200 | 2190 | 2190 | 2210 | 2210 |
| 4.8 | Seat height/standing height | h7(mm) | 1110 | 1110 | 1110 | 1110 | 1110 | 1110 |
| 4.12 | Coupling height | h10(mm) | 290 | 290 | 295 | 295 | 295 | 295 |
| 4.19 | Overall length | l1(mm) | 2981 | 2981 | 3393 | 3398 | 3605 | 3645 |
| 4.20 | Length to face of forks | l2(mm) | 2061 | 2061 | 2323 | 2328 | 2535 | 2575 |
| 4.21 | Overall width | b1(mm) | 1150 | 1150 | 1260 | 1260 | 1260 | 1290 |
| 4.22 | Fork dimensions | s/e/l(mm) | 35/100/920 | 35/100/920 | 40/120/1070 | 40/120/1070 | 45/125/1070 | 50/125/1070 |
| 4.24 | Fork carriage width | b3(mm) | 1040 | 1040 | 1040 | 1040 | 1100 | 1100 |
| 4.31 | Ground clearance ,laden,under mast | m1(mm) | 100 | 100 | 110 | 110 | 110 | 110 |
| 4.32 | Ground clearance,centre of wheelbase | m2(mm) | 110 | 110 | 120 | 120 | 120 | 120 |
| 4.33 | Aisle width for pallets 1000×1200 crossways | Ast(mm) | 3501 | 3501 | 3713 | 3718 | 3898 | 3968 |
| 4.34 | Aisle width for pallets 800×1200 lengthways | Ast(mm) | 3701 | 3701 | 3913 | 3918 | 4098 | 4168 |
| 4.35 | Turning radius | Wa(mm) | 1920 | 1920 | 2050 | 2050 | 2230 | 2300 |
| Performance Data | | | | | | | | |
| 5.1 | Travel speed,laden/unladen | km/h | 13/15 | 13/15 | 13/14 | 13/14 | 13/14 | 12/13 |
| 5.2 | Lift speed,laden/unladen | m/s | 0.32/0.42 | 0.30/0.42 | 0.30/ 0.4 | 0.27/ 0.39 | 0.31/ 0.4 | 0.30/ 0.39 |
| 5.3 | lowering speed,laden/unladen | m/s | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| 5.5 | Drawbar pull,laden/unladen S2 60 min | N | 13000 | 13000 | 3300/2300 | 3300/2300 | 3500/2500 | 3800/2800 |
| 5.7 | Max.Gradient performance,laden/unladen S2 5 min | % | 15/20 | 15/20 | 15/20 | 15/20 | 15/20 | 15/20 |
| 5.10 | Service brake | | hydraulic | hydraulic | hydraulic | hydraulic | hydraulic | hydraulic |
| E-Motor | | | | | | | | |
| 6.1 | Drive motor rating S2 60 min | kW | 6.8 | 6.8 | 11 | 11 | 15 | 15 |
| 6.2 | Lift motor rating at S3 15% | kW | 8.6 | 8.6 | 8.6 | 8.6 | 10 | 10 |
| 6.3 | Battery standard | | BS | BS | BS | BS | BS | BS |
| 6.4 | Battery voltage,nominal capacity K5 | V/Ah | 48/400(48/450/500) | 48/450(48/500) | 48/600 (48/630/700/770) | 48/600 (48/630/700/770) | 80/500(80/560) | 80/500(80/560) |
| | Battery weight | kg | 695 | 760 | 947 | 947 | 1350 | 1350 |
| 6.4 | Battery dimensions l/w/h | mm | 980×398×760 | 980×398×760 | 980×538×760 | 980×538×760 | 1016×688×760 | 1016×688×760 |
| Other Details | | | | | | | | |
| 8.1 | Type of drive control | | AC | AC | AC | AC | AC | AC |
| 8.2 | Operating pressure for attachments | Mpa | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| 8.3 | Oil volume for attachments | l/min | 36 | 36 | 36 | 36 | 36 | 36 |
| 8.4 | Sound level at driver's ear according to EN 12 053 | dB(A) | 73 | 73 | 72 | 73 | 74 | 75 |