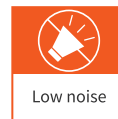
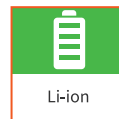


# Updated N-Series Lithium-Special Indoor Compact Electric Forklift

**FEP-20-35NP**

2000-3500 kg Capacity  
80V Li-ion



Why choose between price and quality **WHEN YOU CAN HAVE BOTH!**

## HIGHLIGHTS

- ▶ Powerful and efficient AC drive system
- ▶ Side-shift
- ▶ Standard head-up display for improved safety
- ▶ On-board self-diagnostic system
- ▶ Wireless 4G battery monitoring
- ▶ LED rear work light, headlight and strobe light
- ▶ Tilt cylinder boots
- ▶ Side extraction battery
- ▶ 80V Li-ion
- ▶ Standard Shimadzu low-noise gear pump
- ▶ Standard Shimadzu Silent Gear Pump
- ▶ Featuring CATL battery cells
- ▶ Standard turning speed reduction
- ▶ Vehicle waterproof rating: IPX4
- ▶ Motor and battery protection rating: IP65



## FEP-20-35NP

2000-3500 kg. Capacity

Lithium-dedicated chassis with a low-mounted battery lowers the center of gravity and enhances stability. Fully enclosed operator compartment with a side-opening battery door enables fast and easy battery replacement.



# INNOVATIVE SOLUTIONS

## New Power • Ready to Go



The NP Series of electric forklifts by Noblift, covering load capacities from 2.0 to 3.5 tons, features an all-new chassis design.

Innovative and reliable lithium-ion technology, featuring Pengcheng batteries (CATL cells). Ensures exceptional quality and is custom-engineered for Noblift.

Standard with 80V 100A fast charger, with optional rapid battery swap for worry-free runtime. Equipped with battery heating to ensure reliable operation in low-temperature environments.

| Capacity (V/Ah) | Battery cell |        |
|-----------------|--------------|--------|
| 80V/200Ah       | CATL         | 2-3.5T |
| 80V/268Ah       | CATL         | 2-3.5T |
| 80V/400Ah       | CATL         | 2-3.5T |
| 80V/536Ah       | CATL         | 3-3.5T |



CATL battery cells come with an 8-year or 16,000-hour warranty.



## Excellent Ergonomic Design

- ▶ Equipped with a permanent magnet synchronous lift motor, improving energy efficiency by **15%**, paired with a Shimadzu low-noise gear pump as standard.
- ▶ Ergonomic design provides driver operating space equivalent to internal combustion models, with **30%** more operating space than traditional electric forklifts and exceptional legroom.
- ▶ Lift speed approaches that of internal combustion forklifts, with a no-load maximum of 600 mm/s. Climbing capability reaches **20%**, and a 15% slope hold is achievable when fully loaded at 3.5T. Travel speed reaches 18–19 km/h.
- ▶ Equipped with a smart HUD display, offering intuitive operation and real-time monitoring of vehicle parameters. Electric control parameters can be adjusted directly via the display, without the need for a handheld device.



## Easy operations and maintenance

Internal components are protected with fully sealed covers, ensuring dustproof and waterproof protection for controllers, motors, and other electrical components.

Standard emergency stop switch complies with EU regulations.

The forklift is CE certified.

Vehicle waterproof rating: IPX4

Motor and battery protection rating: IP65



The hood opens at a wide angle for easy maintenance.



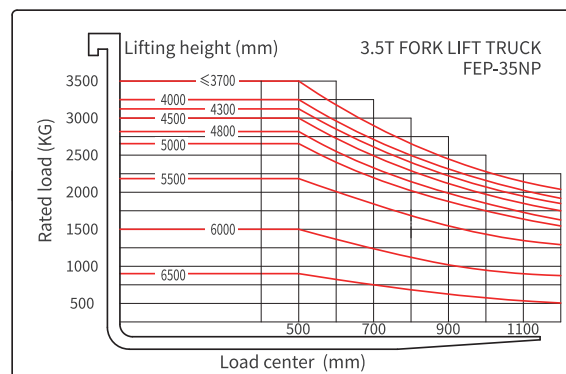
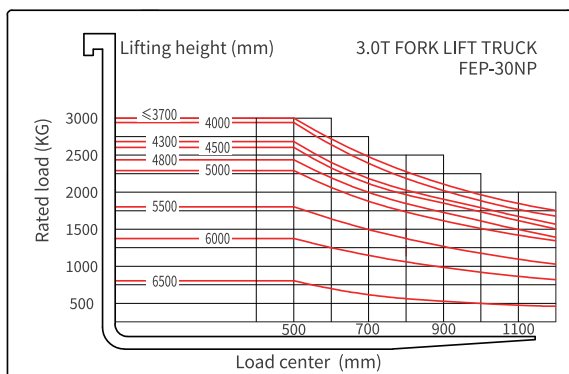
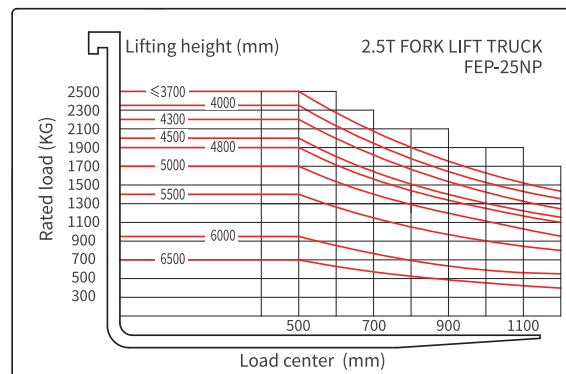
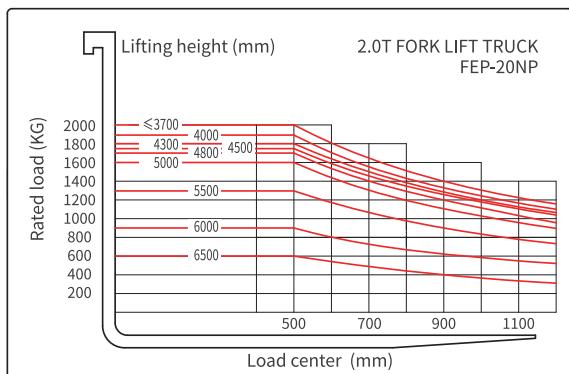
Mast layout is optimized for a wide view and clear visibility while operating.

# Safe and Reliable



Cast steering axle with large steering cylinder ensures smoother turning.

## Load curve graph





## Mast Table FEP-20NP / FEP-25NP

| Designion      | Lift height<br>h3 (mm) | Free height<br>h2 (mm) | Closed mast height<br>h1 (mm) | Extended mast height<br>h4 (mm) | Tilt forward/backward<br>$\alpha / \beta (^{\circ})$ | Capacity table(kg)<br>C=500mm<br>without sideshift single tyres |          |
|----------------|------------------------|------------------------|-------------------------------|---------------------------------|------------------------------------------------------|-----------------------------------------------------------------|----------|
|                |                        |                        |                               |                                 |                                                      | FEP-20NP                                                        | FEP-25NP |
| Two-stage ZT   | 2000                   | 120                    | 1545                          | 2977                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 2500                   | 120                    | 1795                          | 3227                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 3000                   | 120                    | 2045                          | 3977                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 3300                   | 120                    | 2195                          | 4277                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 3500                   | 120                    | 2295                          | 4477                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 3600                   | 120                    | 2345                          | 4577                            | 6/12                                                 | 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                          | 6677                            | 3/6                                                  | 1050                                                            | 1200     |
|                | 6000                   | 120                    | 3645                          | 7177                            | 3/6                                                  | 700                                                             | 800      |
| Two-stage ZZ   | 2000                   | 558                    | 1545                          | 2971                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 2500                   | 808                    | 1795                          | 3471                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 3000                   | 1058                   | 2045                          | 3971                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 3300                   | 1208                   | 2195                          | 4271                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 3500                   | 1308                   | 2295                          | 4471                            | 6/12                                                 | 2000                                                            | 2500     |
|                | 3600                   | 1358                   | 2345                          | 4571                            | 6/12                                                 | 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      |

• Lift height (no load Backrest)+425mm

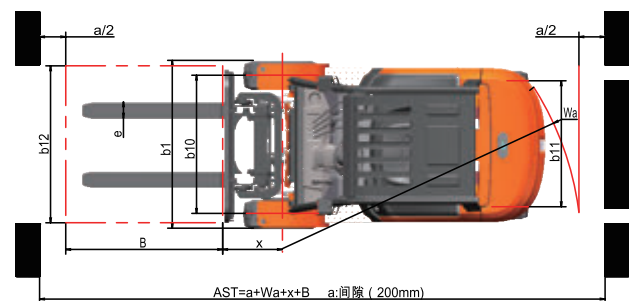
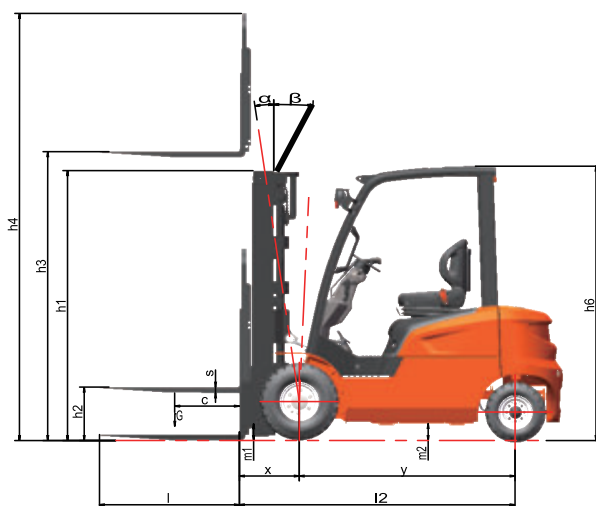
## Mast Table FEP-30NP / FEP-35NP

| Designion      | Lift height<br>h3 (mm) | Free height<br>h2 (mm) | Closed mast height<br>h1 (mm) | Extended mast height<br>h4 (mm) | Tilt forward/backward<br>$\alpha / \beta (^{\circ})$ | Capacity table(kg)<br>C=500mm<br>without sideshift single tyres |          |
|----------------|------------------------|------------------------|-------------------------------|---------------------------------|------------------------------------------------------|-----------------------------------------------------------------|----------|
|                |                        |                        |                               |                                 |                                                      | FEP-30NP                                                        | FEP-35NP |
| Two-stage ZT   | 2000                   | 125                    | 1545                          | 2977                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 2500                   | 125                    | 1795                          | 3227                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 3000                   | 125                    | 2045                          | 3977                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 3300                   | 125                    | 2195                          | 4277                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 3500                   | 125                    | 2295                          | 4477                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 3600                   | 125                    | 2345                          | 4577                            | 6/12                                                 | 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                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 2500                   | 813                    | 1795                          | 3471                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 3000                   | 1063                   | 2045                          | 3971                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 3300                   | 1213                   | 2195                          | 4271                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 3500                   | 1313                   | 2295                          | 4471                            | 6/12                                                 | 3000                                                            | 3500     |
|                | 3600                   | 1363                   | 2345                          | 4571                            | 6/12                                                 | 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     |

• Lift height (no load Backrest)+425mm

|    |                                                       |                    |                  |                  |                  |                  |
|----|-------------------------------------------------------|--------------------|------------------|------------------|------------------|------------------|
| 1  | Manufacturer's type designation                       |                    | FEP-20NP         | FEP-25NP         | FEP-30NP         | FEP-35NP         |
| 2  | Drive                                                 |                    | electric         | electric         | electric         | electric         |
| 3  | Type of operation                                     |                    | Seated           | Seated           | Seated           | Seated           |
| 4  | Load capacity/rated load                              | Q (kg)             | 2000             | 2500             | 3000             | 3500             |
| 5  | Load centre distance                                  | c (mm)             | 500              | 500              | 500              | 500              |
| 6  | Load distance,centre of drive axle to fork            | x (mm)             | 452              | 452              | 457              | 462              |
| 7  | wheelbase                                             | y (mm)             | 1520             | 1520             | 1650             | 1650             |
| 8  | Service weight incl                                   | kg                 | 3790             | 3942             | 4573             | 4748             |
| 9  | Axle loading ,laden front/rear                        | kg                 | 5100/690         | 5689/753         | 6740/833         | 7318/930         |
| 10 | Axle loading,unladen front/rear                       | kg                 | 1630/2160        | 1699/2243        | 1920/2653        | 2836/1912        |
| 11 | Type:solid rubber,superelastic,pneumatic,polyurethane |                    | Pneumatic tire   | Pneumatic tire   | Pneumatic tire   | solid tire       |
| 12 | Tyres size,front                                      |                    | 23×9-10          | 23×9-10          | 23×9-10          | 23×10-12         |
| 13 | Tyres size,rear                                       |                    | 18×7-8           | 18×7-8           | 18×7-8           | 200/50-10        |
| 14 | Track width,front                                     | b10 (mm)           | 1057             | 1057             | 1057             | 1068             |
| 15 | Track width,rear                                      | b11 (mm)           | 955              | 955              | 955              | 967              |
| 16 | Mast/fork carriage tilt forward/backward              | $\alpha/\beta$ (°) | 6/12             | 6/12             | 6/12             | 6/12             |
| 17 | lowered mast height                                   | h1 (mm)            | 2001             | 2001             | 2151             | 2151             |
| 18 | Free lift                                             | h2 (mm)            | 140              | 140              | 145              | 145              |
| 19 | Lift height                                           | h3 (mm)            | 3000             | 3000             | 3000             | 3000             |
| 20 | Extended mast height                                  | h4 (mm)            | 4040             | 4040             | 4135             | 4135             |
| 21 | Overhead load guardheight                             | h6 (mm)            | 2100             | 2100             | 2100             | 2100             |
| 22 | Overall length                                        | l2 (mm)            | 2336             | 2336             | 2480             | 2480             |
| 23 | Overall width                                         | b1 (mm)            | 1283             | 1283             | 1283             | 1315             |
| 24 | Fork dimensions                                       | s*e*l (mm)         | 1070×122×40      | 1070×122×40      | 1070×122×45      | 1070×122×50      |
| 25 | Fork carriage width                                   | b5 (mm)            | 290/1100         | 290/1100         | 290/1100         | 290/1100         |
| 26 | Ground clearance ,laden,under mast                    | m1 (mm)            | 120              | 120              | 120              | 120              |
| 27 | Ground clearance,centre of wheelbase                  | m2 (mm)            | 125              | 125              | 125              | 125              |
| 28 | Aisle width for pallets 1000×1200 crossways           | Ast (mm)           | 3752             | 3752             | 3877             | 3882             |
| 29 | Aisle width for pallets 800×1200 lengthways           | Ast (mm)           | 3952             | 3952             | 4077             | 4082             |
| 30 | Turning radius                                        | Wa (mm)            | 2100             | 2100             | 2220             | 2220             |
| 31 | Travel speed,laden/unladen                            | km/h               | 18/19            | 18/19            | 18/19            | 18/19            |
| 32 | Lift speed,laden/unladen Two stage gantry             | mm/s               | 450/600          | 430/600          | 410/540          | 390/540          |
| 33 | lowering speed,laden/unladen Two stage gantry         | mm/s               | 450/420          | 470/420          | 450/420          | 470/420          |
| 34 | Max.Drawbar pull ,laden/unladen                       | N                  | 15000            | 19000            | 22000            | 23000            |
| 35 | Max.Gradient performance,laden/unladen                | %                  | 20/20            | 20/20            | 20/20            | 15/20            |
| 36 | Service brake                                         |                    | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        |
| 37 | Parking Brake                                         |                    | mechanical brake | mechanical brake | mechanical brake | mechanical brake |
| 38 | Drive motor rating S2 60 min                          | kW                 | 16.6 AC          | 16.6 AC          | 16.6 AC          | 16.6 AC          |
| 39 | Lift motor rating at S3 15%                           | kW                 | 24 (PMM)         | 24 (PMM)         | 24 (PMM)         | 24 (PMM)         |
| 40 | Battery voltage,nominal capacity K5                   | V/Ah               | 80/268           | 80/268           | 80/268           | 80/268           |
| 41 | Battery weight                                        | kg                 | 220              | 220              | 320              | 320              |
| 42 | Type of drive control                                 |                    | MOSFET/AC        | MOSFET/AC        | MOSFET/AC        | MOSFET/AC        |

## Structural Diagram



# A GLOBAL LEADER

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## NOBLELIFT INTELLIGENT EQUIPMENT CO., LTD.



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