www.nobleliftna.com

NOBLELIFT
NORTH AMERICA

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## DIESEL

# FD4P50N-70N

**5,000 - 7,000 lbs. Capacity**

Diesel Pneumatic Forklift




- Capacity 5000-7000lb
- High Performance
- Robust Design
- Ergonomic
- Highly Cost Effective
- Easy Maintenance
- Low noise

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




## HIGHLIGHTS

- On-demand fully hydrostatic power steering (FHPS)
- 4-Way hydraulics to carriage
- Side-shift
- Intelligent buffering
- Multi-function LED Display: Speed, travel direction, fuel indicator, engine temp, oil pressure, odometer, hour meter, parking brake and more
- Spacious operator cab
- Deluxe suspension seat
- Tilt steering column
- Operator Presence System (OPS) for safe operation
- Tilt cylinder boots
- Safety Blue light
- LED rear work light, headlights, and strobe
- Rear grab bar with horn
- Easy serviceability

# FD4P50N-70N

**5,000 - 7,000 lbs. Capacity**

Diesel Pneumatic Forklift

The FD4P50N-70N Series are highly efficient, durable Diesel Pneumatic forklifts. They are designed to move high volumes and big loads reliably. The mast system, front/rear axles, chassis and overhead guard are engineered for the toughest conditions. Applications can include lumber yards, brick and stone distribution centers, specialized warehouses and heavy-duty manufacturing facilities. These high performance, low maintenance forklifts deliver improved productivity while ensuring operator comfort throughout the entire shift.

SIMPLE. SOLID. SMART.



# RELIABILITY AND SAFETY




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




Radiator's plate fin heat dissipation system keeps engine running reliably, even in the most demanding applications.



Intelligent buffering effectively protects the ground and cargo from damage while forks descend to the ground.



Operator Presence System (OPS) — When operator is not in seat, the hydraulic lift and tilt controls automatically lock out and traveling is disabled.



Cast axles increases the bearing load and improves the truck structure, while prolonging vehicle service life.



Durable controller that integrates all electrical components is protected from temperature, water and vibration.



# GREAT VISIBILITY. ERGONOMIC. QUIET.

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



The large, ergonomic cab and user-friendly design ensures operator comfort throughout the entire work shift. Low entrance height provides operator easy and safe access.

Deluxe suspension, fully adjustable seat reduces vibration to the driver to effectively reduce driver fatigue for all sizes of operators.



On-Demand Fully Hydrostatic Power Steering (FHPS) guarantees smooth steering, preventing over-run and kick-back. Spinner knob allows easier one-handed steering.

# GREAT VISIBILITY. ERGONOMIC. QUIET.



The angle of the steering column is easily adjusted with a lever on the left-hand side of the steering column.





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



Optimized pedal position gives operator comfort throughout the entire work shift while reducing operator fatigue.




(2) USB connectors for charging and powering of additional devices during operations.




Angled exit ports direct engine air away from the operator and the cab to help operators stay cool.



Automotive-style levers for headlights and turn signals operate like a car. Easy and intuitive operating controls shorten learning time.

# EASY MAINTENANCE




Gain rapid access to engine and other components with an air spring assisted engine cover and integrated hood lock. Opens wide to allow for complete access.

Automobile-style brake fluid system makes it simple to add and check the brake fluid.

Radiator cover fasteners are easily turned by hand to enable quick inspection or servicing.

Air cleaning system with tangential intake and double seal with safety filter is durable, corrosion-free, and vibration-resistant It provides optimal filter efficiency and lower intake resistance.




Modular frame is designed based on the same chassis as the NOBLELIFT LPG and Electric forklifts. Main components and configurations are the same. Spare parts inventory is minimized to reduce service and maintenance costs.



# LS Mtron Engine

## 56 HP/2,300 rpm

**High Power Engine - LS Mtron**
High performance, durability and excellent fuel efficiency.

Type: L3
Model: L4CRTV4 (EUV)
Number of cylinders: 4
Bore x Stroke: 88mm x 103mm
Displacement: 2,505 cc
Rated output: 42(56hp)/2300kw/rpm
Rated torque: 208/1600N.m/rpm

Powerful high-output engine provides excellent acceleration, gradeability and fast travel speed.



# ENVIRONMENTALLY FRIENDLY



NOBLELIFT's diesel engines meet the tough EPA Tier IV Final and EU Stage V emission regulations for engine exhaust emissions.

NOBLELIFT has used environment friendly materials when possible — Including non-asbestos brake shoes and a new type of sealing gasket. We are committed to pursuing a clean environment.



| Mast Table FD4P50N | | | | | | |
|---|---|---|---|---|---|---|
| Designation | Lift height h3 (in) | Free lift h2 (in) | Closed mast height h1 (in) | Extended mast height h4 (in) | Tilt forward / backward a/b (°) | Capacity table (lb) C=24in without sideshift single pneumatic tires |
| | FD4P50N | FD4P50N | FD4P50N | FD4P50N | FD4P50N | FD4P50N |
| Two-stage STD | 79 | 5.1 | 61.2 | 117.1 | 6 / 10 | 5,000 |
| | 98 | 5.1 | 73.4 | 136.8 | 6 / 10 | 5,000 |
| | 118 | 5.1 | 80.9 | 156.5 | 6 / 10 | 5,000 |
| | 130 | 5.1 | 86.8 | 168.3 | 6 / 10 | 5,000 |
| | 138 | 5.1 | 90.7 | 176.1 | 6 / 10 | 5,000 |
| | 142 | 5.1 | 92.7 | 180.1 | 6 / 10 | 5,000 |
| | 146 | 5.1 | 94.7 | 184 | 6 / 10 | 5,000 |
| | 157 | 5.1 | 102.6 | 195.8 | 6 / 6 | 4,900 |
| | 169 | 5.1 | 108.5 | 207.6 | 6 / 6 | 4,600 |
| | 177 | 5.1 | 112.4 | 215.5 | 6 / 6 | 4,200 |
| | 197 | 5.1 | 122.2 | 235.2 | 6 / 6 | 3,700 |
| Two-stage FL | 79 | 24.8 | 61.2 | 116.9 | 6 / 10 | 5,000 |
| | 98 | 34.7 | 71.1 | 136.5 | 6 / 10 | 5,000 |
| | 118 | 44.5 | 80.9 | 156.2 | 6 / 10 | 5,000 |
| | 130 | 50.4 | 86.8 | 168 | 6 / 10 | 5,000 |
| | 138 | 54.4 | 90.7 | 175.9 | 6 / 10 | 5,000 |
| | 142 | 56.3 | 92.7 | 179.8 | 6 / 10 | 5,000 |
| | 146 | 58.3 | 94.7 | 183.8 | 6 / 10 | 5,000 |
| | 157 | 66.2 | 102.6 | 195.6 | 6 / 6 | 4,800 |
| Three-stage FFL | 157 | 41.6 | 78 | 195.9 | 6 / 6 | 4,700 |
| | 171 | 46.5 | 82.9 | 209.7 | 6 / 6 | 4,400 |
| | 177 | 48.5 | 84.8 | 215.6 | 6 / 6 | 4,000 |
| | 189 | 52.4 | 88.8 | 227.4 | 6 / 6 | 3,800 |
| | 197 | 58 | 94.4 | 235.3 | 6 / 6 | 3,400 |
| | 217 | 67.2 | 104.2 | 255 | 3 / 6 | 2,800 |
| | 236 | 76.4 | 112.8 | 274.6 | 3 / 6 | 1,900 |
| | 256 | 85.6 | 122 | 294.3 | 3 / 6 | 1,400 |

Side shift fork positioner - reduce 440lbs for loading capacity.

| Mast Table FD4P60-70N | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Designation | Lift height h3 (in) | | Free lift h2 (in) | | Closed mast height h1 (in) | | Extended mast height h4 (in) | | Tilt forward / backward a/b (°) | | Capacity table (lb) C=24in without sideshift single pneumatic tires | |
| | FD4P60N | FD4P70N | FD4P60N | FD4P70N | FD4P60N | FD4P70N | FD4P60N | FD4P70N | FD4P60N | FD4P70N | FD4P60N | FD4P70N |
| Two-stage STD | 79 | 79 | 5.5 | 5.7 | 62.0 | 66.3 | 121.2 | 121.2 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 98 | 98 | 5.5 | 5.7 | 71.9 | 76.2 | 140.9 | 140.9 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 118 | 118 | 5.5 | 5.7 | 81.7 | 86 | 160.6 | 160.6 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 130 | 130 | 5.5 | 5.7 | 87.6 | 91.9 | 172.4 | 172.4 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 138 | 138 | 5.5 | 5.7 | 91.5 | 95.9 | 180.3 | 180.3 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 142 | 142 | 5.5 | 5.7 | 93.5 | 97.8 | 184.2 | 184.2 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 146 | 146 | 5.5 | 5.7 | 95.5 | 99.8 | 188.1 | 188.1 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 157 | 157 | 5.5 | 5.7 | 103.3 | 107.7 | 200 | 200 | 6 / 6 | 6 / 6 | 5,900 | 6,600 |
| | 169 | 169 | 5.5 | 5.7 | 109.3 | 113.6 | 211.8 | 211.8 | 6 / 6 | 6 / 6 | 5,700 | 6,500 |
| | 177 | 177 | 5.5 | 5.7 | 113.2 | 117.5 | 219.6 | 219.6 | 6 / 6 | 6 / 6 | 5,200 | 6,200 |
| | 197 | 197 | 5.5 | 5.7 | 123.0 | 127.4 | 239.3 | 239.3 | 6 / 6 | 6 / 6 | 4,800 | 5,300 |
| Two-stage FL | 79 | 79 | 19.5 | 19.5 | 62 | 62 | 121.2 | 121.2 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 98 | 98 | 29.4 | 29.4 | 71.9 | 71.9 | 140.9 | 140.9 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 118 | 118 | 39.2 | 39.2 | 81.7 | 81.7 | 160.6 | 160.6 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 130 | 130 | 45.1 | 45.1 | 87.6 | 87.6 | 172.4 | 172.4 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 138 | 138 | 49.1 | 49.1 | 91.5 | 91.5 | 180.3 | 180.3 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 142 | 142 | 51 | 51 | 93.5 | 93.5 | 184.2 | 184.2 | 6 / 10 | 6 / 10 | 6,000 | 7,000 |
| | 146 | 146 | 53 | 53 | 95.5 | 95.5 | 188.1 | 188.1 | 6 / 10 | 6 / 10 | 6,000 | 6,900 |
| | 157 | 157 | 60.9 | 60.9 | 103.3 | 103.3 | 200 | 200 | 6 / 6 | 6 / 10 | 5,900 | 6,600 |
| Three-stage FFL | 157 | 157 | 36.3 | 36.3 | 78.7 | 78.7 | 200 | 200 | 6 / 6 | 6 / 6 | 5,800 | 6,500 |
| | 171 | 171 | 41.2 | 41.2 | 83.7 | 83.7 | 213.7 | 213.7 | 6 / 6 | 6 / 6 | 5,400 | 6,300 |
| | 177 | 177 | 43.1 | 43.1 | 85.6 | 85.6 | 219.6 | 219.6 | 6 / 6 | 6 / 6 | 5,200 | 6,000 |
| | 189 | 189 | 47.1 | 47.1 | 89.6 | 89.6 | 231.5 | 231.5 | 6 / 6 | 6 / 6 | 4,800 | 5,600 |
| | 197 | 197 | 52.7 | 52.7 | 95.2 | 95.2 | 239.3 | 239.3 | 6 / 6 | 6 / 6 | 4,600 | 5,300 |
| | 217 | 217 | 61.9 | 61.9 | 104.4 | 104.4 | 259 | 259 | 3 / 6 | 3 / 6 | 3,600 | 4,400 |
| | 236 | 236 | 71.1 | 71.1 | 113.6 | 113.6 | 278.7 | 278.7 | 3 / 6 | 3 / 6 | 2,800 | 3,000 |
| | 256 | 256 | 80.3 | 80.3 | 122.8 | 122.8 | 298.4 | 298.4 | 3 / 6 | 3 / 6 | 1,600 | 1,800 |
| | 276 | - | 86.8 | - | 129.3 | - | 318.1 | - | 3 / 6 | - | 1,200 | - |

Side shift fork positioner - reduce 440lbs for loading capacity.

| | | | | | |
|---|---|---|---|---|---|
| **Identification** | | | | | |
| 1.1 | Manufacturer | | NOBLELIFT | | |
| 1.2 | Model | | FD4P50N | FD4P60N | FD4P70N |
| 1.3 | Drive (electric – battery or mains, diesel, petrol, gas, manual) | | Diesel | | |
| 1.4 | Type of operation (hand, pedestrian, standing, seated, order picker) | | Seated forklift | | |
| 1.5 | Load capacity / rated load | Q (lb) | 5,000 | 6,000 | 7,000 |
| 1.6 | Load center distance | C (in) | 24 | | |
| 1.8 | Load distance, center of drive axle to fork | x (in) | 18.8 | 19 | |
| 1.9 | Wheel base | y (in) | 63 | 66.9 | |
| **Weights** | | | | | |
| 2.1 | Service weight including engine | lb | 8,045 | 9,568 | 10,470 |
| 2.2 | Axle loading, laden front / rear | lb | 12,125 / 1,322 | 14,088 / 1,499 | 15,741 / 1,852 |
| 2.3 | Axle loading, unladen front / rear | lb | 3,395 / 4,542 | 3,858 / 5,115 | 4,321 / 5,556 |
| **Wheels, Chassis** | | | | | |
| 3.1 | Tires (solid rubber, superelastic, pneumatic, polyurethane) | | Solid pneumatic | | |
| 3.2 | Tire size, front | | 7.00-12-12PR | 28x9-15-14PR | |
| 3.3 | Tire size, rear | | 6.00-9-10PR | 6.50-10-10PR | |
| 3.5 | Wheels, number front / rear (x = driven wheels) | | 2x / 2 | | |
| 3.6 | Track width, front | (in) | 38 | 39 | |
| 3.7 | Track width, rear | (in) | 38.6 | | |
| **Basic Dimensions** | | | | | |
| 4.1 | Mast / fork carriage tilt forward / backward | a/b (°) | 6 / 10 | | |
| 4.2 | Lowered mast height | h1 (in) | 80.9 | 81.7 | 86 |
| 4.3 | Free lift | h2 (in) | 5 | 5.5 | 5.7 |
| 4.4 | Lift height | h3 (in) | 118 | | |
| 4.5 | Extended mast height | h4 (in) | 156 | 161 | |
| 4.7 | Overhead load guard (cab) height | h6 (in) | 86 | | |
| 4.8 | Seat height / standing height | h7 (in) | 45 | 46 | |
| 4.12 | Coupling height | h10 (in) | 15 | | |
| 4.19 | Overall length | l1 (in) | 146 | 150 | |
| 4.20 | Length to face of forks | l2 (in) | 103 | 108 | 111 |
| 4.21 | Overall width | b1 (in) | 45 | 48 | |
| 4.22 | Fork Dimensions | s/e/l (in) | 1.6 / 4.7 / 42 | 1.8 / 4.9 / 42 | 2.0 / 4.9 / 42 |
| 4.24 | Fork carriage width | b3 (in) | 41 | 43 | |
| 4.31 | Ground clearance, under mast, laden | m1 (in) | 4.9 | 5.5 | 5.5 |
| 4.32 | Ground clearance, center of wheelbase | m2 (in) | 6.7 | | |
| 4.33 | Right angle stack with 40x48 pallet | Ast (in) | 145.6 | 154.5 | 157 |
| 4.34 | Right angle stack with 32x48 pallet | Ast (in) | 153.6 | 162.5 | 165 |
| 4.35 | Turning radius | Wa (in) | 87.8 | 96.5 | 99 |
| **Performance Data** | | | | | |
| 5.1 | Travel speed, forward / backward | mph | 11.2 / 11.2 | 11.8 / 11.8 | |
| 5.2 | Lift speed, laden / unladen | fpm | 96.6 / 102 | 84.6 / 90.6 | 78.7 / 84.6 |
| 5.3 | Lowering speed, laden / unladen | fpm | <.12 | | |
| 5.5 | Max. Drawbar pull, laden / unladen | blf | 3,372 / 3,822 | | |
| 5.7 | Max. Gradient performance, laden / unladen | % | 20 / 20 | | |
| 5.10 | Service brake | | Hydraulic | | |
| **Engine** | | | | | |
| 6.1 | Model | | S4S-455 | | |
| 6.2 | Rated power / speed | HP/rpm | 47.3 / 2,250 | | |
| 6.3 | Generator voltage | V | 12 | | |
| 6.4 | Starting motor voltage / output power | V/kw | 12 / 2.2 | | |

NOBLELIFT reserves the right to make technical changes and improvements to our products to maintain or enhance the quality, delivery, and efficiency.

# A GLOBAL LEADER

NOBLELIFT is a global leader in Lithium Technology. We manufacture more than 200 categories and around 30 series of each product. Our products are designed to meet different application demands and are well accepted by our customers in more than 100 countries and regions in Europe, America, Asia, Africa and more.

**Products include:** sit-down forklifts, rough terrain forklifts, narrow aisle forklifts, walkie-stackers, order pickers, electric pallet trucks, scissor lifts, tuggers, tow tractors, scrubbers, lift tables, manual pallet jacks and more.



FORKLIFTS



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