



## FD20/25/30/35N

### DIESEL-POWERED FORKLIFT



Ergonomic



Robust design



Good value for money



Capacity 2000-3500kg



High performance



Easy maintenance

*Why choose between price and quality when you can have both !*

# FD20/25/30/35N - PRODUCT OVERVIEW

## // Product presentation

The new range of internal combustion (IC) forklift trucks is environmentally friendly, with excellent safety, reliability, ergonomics, comfort and ease of maintenance.

Noblelift FD Series IC forklifts adopt the mast system of the Q Series electric forklift range, making them easy to exchange and maintain and reducing spare parts stock. The components are all from leading manufacturers. They reduce maintenance costs and guarantee top performance and reliability.

## // Safety and reliability

Safety and reliability are always Noblelift R&D's priorities, and great attention is paid to the quality of its products to ensure optimum productivity from its trucks.

The structure and key standard components, such as the chassis, mast and overhead guard, are optimised to improve the safety and reliability of the whole truck. The chassis is reinforced with an ultra-thick structure to ensure optimum durability and stability, even at high speeds.

The trucks feature a lamellar radiator with optimised heat dissipation channels. This improves heat dissipation capacity to ensure motor reliability in the most demanding applications.





## FD20/25/30/35N - PRODUCT FEATURES

Equipped with a forged steering axle and shock-absorbing system, the truck offers excellent comfort and robustness to extend its service life.



The main electronic components are protected and housed in a special casing for enhanced protection (temperature, vibrations, dust, water splashes, etc.).



The Operator Presence System (OPS), available as standard, incorporates an automatic lift/tilt and steering lock function when the operator leaves the seat. This ensures maximum operator safety.



The engine is housed in an enclosure designed to prevent the ingress of dust, water and other contaminants.

# FD20/25/30/35N - PRODUCT OVERVIEW

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## // **A new ergonomic and comfortable design**

The structure and layout of the various components of the FD series trucks have been optimised. Thanks to the clear display and ergonomic positioning of the equipment, the operator can quickly find out all the information relating to the truck, making work easier and more comfortable for longer periods.

Fitted with a 100% steering and rotation system, the FD series trucks are particularly effective for manoeuvring in confined spaces. The truck has a short turning radius, smooth steering, good gradeability and perfect manoeuvrability.

The tilt cylinder is located under the driver's platform. This truck is fitted as standard with a spacious, non-slip step and a large access handle, making it easy to get in and out of the truck.

The FD series trucks have a wide visibility mast, a hydraulic system and a cushioned descent to the ground, effectively protecting the cargo from damage.

The specially developed notched parking brake reduces actuation force by 30%.



## // **A silent, low-vibration model**

Equipped with a forged steering axle, with a shock-absorbing system, the FD series offers excellent comfort and robustness to extend its service life. The hydraulic system uses a quiet gear pump and fully hydraulic power steering, making operation quiet and comfortable.



FD series trucks are fitted with lamps as standard. LED, Blue spotlight, USB port, rear handle with integrated horn, all to give the operator the greatest possible comfort and optimum safety of use.

The large access handle, fitted as standard, makes it easier to get in and out of the truck, and improves comfort by making it easier to drive in reverse.





# FD20/25/30/35N - PRODUCT FEATURES

## // Environmentally-friendly and easy to maintain

Serviceability is always one of the top priorities: it ensures the safety and efficiency of the forklift truck. It is also vital for efficient maintenance and servicing, to maintain high profitability.

The new design of the entire FD and FG series is based on the same chassis, with a variety of fuel configuration choices (diesel/gas). Depending on the configuration, the components are essentially the same. As a result, spare parts management is simplified.

The entire range of internal combustion forklift trucks is powered by diesel or gas engines that comply with European Stage V emissions standards, to help protect the environment. The Euro V diesel engine is equipped with an automatic DPFS regeneration function. The system is also equipped with a function that displays the amount of blockage in the DPFS, making maintenance much easier.

FD series forklift trucks feature environmentally friendly materials, such as the asbestos-free brake and the new-generation seal.

Standard-equipped with a wide opening angle for the bonnet, featuring a gas-operated cylinder and integrated lock, making it easier to open and close the bonnet. and excellent visibility.

The radiator cover fasteners can be easily unscrewed by hand for quick checks and repairs.

The new punched air filter, featuring tangential absorption, a double seal and a safety filter, is more resistant to vibration, humidity and corrosion than standard air filters. This latest-generation equipment offers excellent filtration efficiency and easier absorption resistance than traditional filters.



### **XINCHAI (Diesel)**

Type : G (1) 3  
Rated power: 36.8kw-2500rpm Engine  
torque: 156kw-1700rpm Model:  
4D27G31-012  
No. of cylinders: 4  
Bore x stroke: 90 x 105mm  
Displacement: 2.67L



### **LS Miron (Diesel J) Optional**

Type : L3  
Rated power: 42kw-2300rpm Motor  
torque: 208kw-1700rpm Model: L4CRTV  
4 (EUV)  
No. of cylinders: 4  
Bore x stroke: 88 x 103mm  
Displacement: 2.505L

Designation	Lifting height h3 (mm)	Free lift h2 (mm)	Height of retracted mast h1 (mm)	Deployed mast height h4 (mm)	Forward/backward tilt $\alpha / \beta$ (°)	Capacity at CDG C=500mm	
						FD20N	FD25N
Duplex	2000	135	1570	2974	6/10	2000	2500
	2500	135	1820	3474	6/10	2000	2500
	3000	135	2070	3974	6/10	2000	2500
	3300	135	2220	4274	6/10	2000	2500
	3500	135	2320	4474	6/10	2000	2500
	3600	135	2370	4574	6/10	2000	2500
	3700	135	2420	4674	6/10	2000	2500
	4000	135	2620	4974	6/6	2000	2450
	4300	135	2770	5274	6/6	1950	2300
	4500	135	2870	5474	6/6	1900	2100
5000	135	3120	5974	6/6	1450	1850	
Duplex Large free lift	2000	631	1570	2968	6/10	2000	2500
	2500	881	1820	3468	6/10	2000	2500
	3000	1131	2070	3968	6/10	2000	2500
	3300	1281	2220	4268	6/10	2000	2500
	3500	1381	2320	4468	6/10	2000	2500
	3600	1431	2370	4568	6/10	2000	2500
	3700	1481	2420	4668	6/6	2000	2500
	4000	1681	2620	4968	6/6	2000	2400
Triplex Large free lift	4000	1056	1980	4978	6/6	1900	2350
	4350	1181	2105	5328	6/6	1800	2200
	4500	1231	2155	5476	6/6	1750	2000
	4800	1331	2255	5776	6/6	1700	1900
	5000	1474	2398	5976	6/6	1600	1700
	5500	1708	2647	6476	3/6	1300	1400
	6000	1941	2865	6976	3/6	900	950
	6500	2174	3098	7476	3/6	600	700

Designation	Lift height h3 (mm)		Free lift h2 (mm)		Height of retracted mast h1 (mm)		Deployed mast height h4 (mm)	Forward/reverse tilt $\alpha / \beta$ (°)	Capacity at CDG C=500mm	
	FD30N	FD35N	FD30N	FD35N	FD30N	FD35N			FD30N	FD35N
Duplex	2000	2000	140	145	1575	1686	3079	6/10	2000	2500
	2500	2500	140	145	1825	1935	3579	6/10	2000	2500
	3000	3000	140	145	2075	2185	4079	6/10	2000	2500
	3300	3300	140	145	2225	2335	4379	6/10	2000	2500
	3500	3500	140	145	2325	2435	4579	6/10	2000	2500
	3600	3600	140	145	2375	2485	4679	6/10	2000	2500
	3700	3700	140	145	2425	2535	4779	6/10	2000	2500
	4000	4000	140	145	2625	2735	5079	6/6	2000	2450
	4300	4300	140	145	2775	2285	5379	6/6	1950	2300
	4500	4500	140	145	2875	2985	5579	6/6	1900	2100
5000	5000	140	145	3125	3235	6079	6/6	1450	1850	
Duplex Large free lift	2000	2000	563	491	1575	1575	3079	6/10	2000	2500
	2500	2500	813	741	1825	1825	3579	6/10	2000	2500
	3000	3000	1063	991	2075	2075	4079	6/10	2000	2500
	3300	3300	1213	1141	2225	2225	4379	6/10	2000	2500
	3500	3500	1313	1241	2325	2325	4579	6/10	2000	2500
	3600	3600	1363	1291	2375	2375	4679	6/10	2000	2500
	3700	3700	1413	1341	2425	2425	4779	6/6	2000	2500
	4000	4000	1613	1541	2625	2625	5079	6/6	2000	2400
Triplex Large free lift	4000	4000	988	916	2000	2000	5079	6/6	1900	2350
	4350	4300	1113	1041	2125	2125	5479	6/6	1800	2200
	4500	4500	1163	1091	2175	2175	5579	6/6	1750	2000
	4800	4800	1263	1191	2275	2275	5879	6/6	1700	1900
	5000	5000	1406	1334	2418	2418	6079	6/6	1600	1700
	5500	5500	1640	1568	2652	2652	6579	3/6	1300	1400
	6000	6000	1873	1801	2585	2585	7079	3/6	900	950
	6500	6500	2107	2034	3118	3118	7579	3/6	600	700

General								
1.1	Model			FD20N	FD25N	FD30N	FD35N	
1.2	Rated capacity		kg	2000	2500	3000	3500	
1.3	Centre of gravity		mm	500	500	500	500	
Features and dimensions								
2.1	Lifting height		mm	3000	3000	3000	3000	
2.2	Mast tilt angle	F/R	Deg	6/10	6/10	6/10	6/10	
2.3	Forks	L x W x H	mm	1070x100x45	1070x122x40	1070x125x45	1070x130x50	
2.4		Spacing range	mm	200-1040	200-1040	250-1100	260-1100	
2.5	Front overhang		mm	478	478	478	478	
2.6	Rear overhang		mm	496	543	530	607	
2.7	Mast width	Outside width of steel rail	mm	700	700	700	700	
2.8	Minimum ground clearance (bottom of chassis)	Unloaded	mm	131	131	156	156	
2.9		With load	mm	120	120	140	140	
2.10	Minimum ground clearance (bottom of mast)	Unloaded	mm	125	125	140	140	
2.11		With load	mm	115	115	130	130	
2.12	General dimensions	Total length (without forks)		mm	2560	2620	2700	2770
2.13		Total width		mm	1150	1150	1210	1210
2.14		Lowered mast height	Railing height	mm	2180	2180	2205	2205
2.15			Mast	mm	2010	2010	2075	2150
2.16			Deployed mast height	mm	4090	4090	4182	4177
2.17	Minimum turning radius		mm	2180	2230	2450	2520	
2.18	Wheelbase		mm	1600	1600	1700	1700	
2.19	Height of traction axle above ground level		mm	305	305	330	330	
2.20	Seat lowered to full inside height of guard		mm	1050	1050	1050	1050	
2.25	Height from centre of tyre to ground	With load	Before	mm	320	320	345	345
2.26			Rear	mm	250	250	260	260
2.27		Unloaded	Before	mm	310	310	330	330
2.28			Rear	mm	265	265	280	280
Performance								
3.1	Speed	Displacement (empty/loaded)		km/h	18/17	18/17	19/18	19/18
3.2		Lift (empty/loaded)		mm/sec	520/490	520/490	460/430	460/430
3.3		Lowering (empty/loaded)		mm/sec	420/380	420/380	400/380	400/380
3.4	Maximum tractive effort (unladen/loaded)			KN	15/17	15/17	15/17	15/17
3.5	Maximum gradient (empty/loaded)			%	20	20	20	18
3.6	Ramp parking brake			%	15	15	15	15
3.7	Braking distance			m	≤6	≤6	≤6	≤6
3.8	System pressure			MPa	18.5	18.5	18.5	20.5
Weight								
4.1	Dead weight			kg	3400	3635	4340	4710
4.2	Weight distribution	With load	Before	kg	4760	5385	6520	7250
4.3			Rear	kg	640	650	820	960
4.4		Unloaded	Before	kg	1540	1500	1750	1690
4.5			Rear	kg	1860	2135	2590	3020
4.6	Pneumatic	Before		/	7.00-12-12PR	7.00-12-12PR	28*9-15-14PR	28*9-15-14PR
4.7		Rear		/	6.00-9-10 PR	6.00-9-10 PR	6.50-10-10 PR	6.50-10-10 PR





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