

NOBLELIFT



We Promise, We deliver



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2-3.5T

FD4P20-35N Series Internal Combustion
Counterbalanced Forklift Truck

NEW *Noblelift Products*
ARRIVAL



Product Introduction

Under the request of our dealers, Noblift combines the experience of the forklifts industry in China and the latest forklift technologies globally to present to our partners the Noblift environmental-friendly IC forklifts range with excellent safety, reliability, ergonomics & comfort and easy maintenance. Noblift IC forklifts adopt the mast system of Q series electric forklifts range for easy exchange, easier service and less parts inventory.

Selected top brand components in the industry make sure the best reliability and performance of the trucks.

Diesel Forklift



Electric Forklift

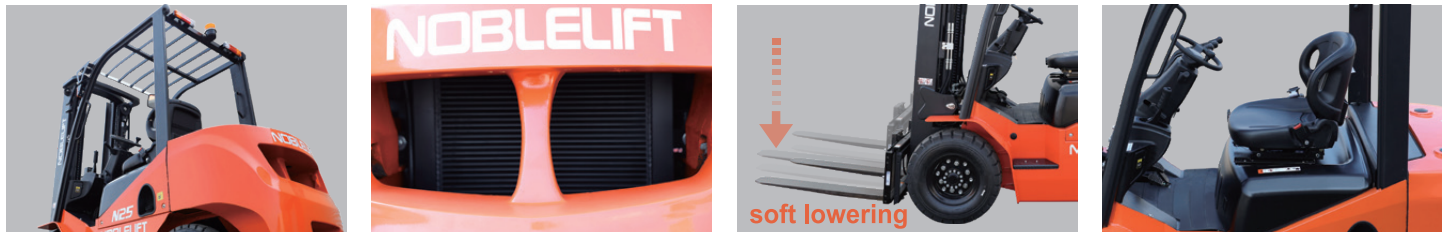


Robust, Reliable, Remarkable



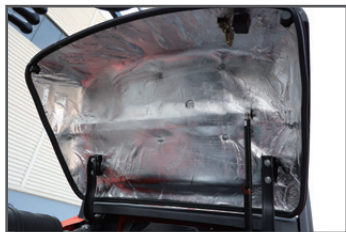
Safety and Reliability

Safety and reliability are always the focus of Noblift R&D when we are dedicated to supply products to our customers, Noblift pays great attention to the details and main points to ensure the best productivity from our trucks.



- The structure and key components such as chassis, mast and overhead guard are optimized to improve the whole truck's safety and reliability. the chassis is reinforced with extra thick structure to ensure the best durability and stability even while steering at the maximum speed.
- Plate fin type radiator with optimized heat dissipation channels enhances the heat dissipation capability to keep engine's reliability in most demanding applications.
- Intelligent buffering when descending to the ground, effectively protects the ground and cargo from damages.
- Operator's safety belt restraint warning system is standard to ensure the safety of the operator.

Optional Operator Presence System (OPS) incorporates lifting/tilting and traveling locking function. When the operator leaves the seat, the system automatically locks lifting/tilting and disables traveling to ensure safety.



- The key rotation parts are protected from water and dust to extend their maintenance period. With the using of cast axle, the bearing load carrying ability is improved and the truck's structure is simple and reliable, The service life is prolonged.



- The controller integrates all electrical components, features excellent durability for temperature, water and vibration for most demanding operations.



Ergonomics and Comfort

Ergonomic design such as optimized operating device structure & layout, with the clear displaying and ergonomic location of the instrument, the operator can know the truck information in time, which reduces driving fatigue and makes long hours of operation effortless.

- With 100% pivot steering and returning, systems the truck has good maneuverability in narrow areas. The truck has small turning radius, easy steering, good gradeability and perfect maneuverability.
- Tilting cylinder is located below the floor panel of the driving cab, widening low anti-slip step and enlarging operation space at foot provide comfort entry and exit operation.
- Wide view through the optimized mast and hydraulic System, the forks with intelligent buffer, protect the ground and goods from damage.
- The ratchet parking brake is specially developed. The operational force is reduced by 30%.



QUIET & LOW-VIBRATION DESIGN

The hydraulic system uses a low-noise gear pump and full hydraulic power steering. Quiet and comfortable operation. Shock absorbing steer axle to protect the vehicle system and prolong the service life of the forklift.

Optional to have compound engine damper and full floating power train to reduce the vibration for comfortable operation with excellent ergonomics & productivity.



The rear assist grip with a horn enhances comfort by offering easy horn operation while travelling in reverse.



The forklift is equipped with standard LED lamps: headlamps, front turn lamps, rear combination lamps, warning lamps. Bright light with low power consumption allows you to operate freely at night.

Environmental-friendly & Easy maintenance

Easy maintenance is always one of the top priorities to consider as it not only ensures safety and work efficiency of the forklift but also vital for the dealers to do the maintenance and service in an efficient way to minimize the down time and save the service cost for users.

- Modular design based on the same chassis, a variety of fuel (diesel / liquefied gas) configuration choices, the main components are the same, spare parts inventory is minimized to reduce service and maintenance costs.
- The whole Noblift IC range adopts the engines no matter diesel, LPG or Fuel gas conforming to the local market emission standard including EU Stage V and the American EPA Tier 4 standard to ensure environmental protection.
Euro V diesel-powered model is equipped with DPF automatic regeneration function, and the instrument is equipped with DPF blocking quantity display function which is convenient for maintenance.

- The environment friendly materials, such as non-asbestos brake shoe and new type sealing gasket, are adopted entirely to pursue environmental safety
- Large engine hood opening angle with air spring and integrated hood lock is convenient for opening and close during maintenance with excellent acceptability .
- The two-piece design makes the floorboard easy to lift and remove for access to the power train.
- The automobile type brake fluid adding cap structure makes it simple to check the brake fluid.
- The fasteners of the radiator cover can be turned easily by hand to enable quick inspections or servicing.
- The new stamped air cleaner featuring tangential intake, double seal with safety filter is durable, corrosion-free and vibration-resistant, provides better filtering efficiency and lower intake resistance than traditionally used.



YANMAR (Diesel)

Type:A3

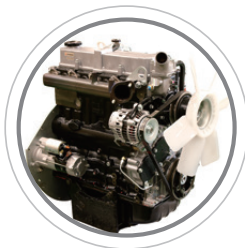
Rated output **42.1/2300**kw/rpm
Rated torque:**177.6 196.3/1700**N.m/rpm
Model:4TNE98-BQFLC(EUIII)
No. of cylinder:4
Bore x Stroke:98×110mm
Displacement:3.318L



MITSUBISHI (Diesel)

Type:B3

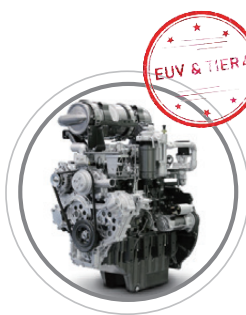
Rated output **34.4/2250**kw/rpm
Rated torque:**169/1700**N.m/rpm
Model:S4S(EUIIA)
No. of cylinder:4
Bore x Stroke:94×120mm
Displacement:3.331L



LS Mtron (Diesel)

Type:L3

Rated output **42/2300**kw/r.p.m
Rated torque:**208/1700**N.m/r.p.m
Model:L4CRTV4(EUV)
No. of cylinder:4
Bore x Stroke:88×103mm
Displacement:2.505L



XINCHAI (Diesel)

Type:G (1) 3

Rated output **36.8/2500**kw/r.p.m
Rated torque:**156/1700-1900**N.m/r.p.m
Model:4D27G31-012
No. of cylinder:4
Bore x Stroke:90×105mm
Displacement:2.67L



HYUNDAI (LPG)

Type:N3/P3; K3/L3

Rated output **43.5/2500**kw/r.p.m
Rated torque:**177/1600**N.m/r.p.m
Model:THETA2.4
No. of cylinder:4
Bore x Stroke:88×97mm
Displacement:2.359L



FD4P20-35N

FD4P20-35N

Mast Table FD20-25N												
Designion	Lift height		Free Lift		Closed mast height		Extended mast height		Tilt forward/backward		Capacity table(kg) C=600mm without sideshift, single pneumatic tyres	
	h3 (mm)		h2 (mm)		h1 (mm)		h4 (mm)		α / $\beta(^{\circ})$		FD20	FD25
Two-stage ZT	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
Two-stage ZZ	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
Three-stage DZ	4000		1681		2620		4968		6/6		2000	2400
	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		3/3		600	700

Free lift height with no load backrest, backrest height is 425mm

Mast Table FD30N-35N												
Designion	Lift height		Free Lift		Closed mast height		Extended mast height		Tilt forward/backward		Capacity table(kg) C=500mm without sideshift, single pneumatic tyres	
	h3 (mm)		h2 (mm)		h1 (mm)		h4 (mm)		α / $\beta(^{\circ})$		FD30N	FD35N
Two-stage ZT	2000	2000	140	145	1575	1685	3079	3079	6/10	6/10	3000	3500
	2500	2500	140	145	1825	1935	3579	3579	6/10	6/10	3000	3500
	3000	3000	140	145	2075	2185	4079	4079	6/10	6/10	3000	3500
	3300	3300	140	145	2225	2335	4379	4379	6/10	6/10	3000	3500
	3500	3500	140	145	2325	2435	4579	4579	6/10	6/10	3000	3500
	3600	3600	140	145	2375	2485	4679	4679	6/10	6/10	3000	3500
	3700	3700	140	145	2425	2535	4779	4779	6/10	6/10	3000	3500
	4000	4000	140	145	2625	2735	5079	5079	6/6	6/6	2950	3300
	4300	4300	140	145	2775	2885	5379	5379	6/6	6/6	2850	3250
	4500	4500	140	145	2875	2985	5579	5579	6/6	6/6	2600	3100
Two-stage ZZ	5000	5000	140	145	3125	3235	6079	6079	6/6	6/6	2400	2650
	2000	2000	563	491	1575	1575	3079	3079	6/10	6/10	3000	3500
	2500	2500	813	741	1825	1825	3579	3579	6/10	6/10	3000	3500
	3000	3000	1063	991	2075	2075	4079	4079	6/10	6/10	3000	3500
	3300	3300	1213	1141	2225	2225	4379	4379	6/10	6/10	3000	3500
	3500	3500	1313	1241	2325	2325	4579	4579	6/10	6/10	3000	3500
	3600	3600	1363	1291	2375	2375	4679	4679	6/10	6/10	3000	3500
Three-stage DZ	3700	3700	1413	1341	2425	2425	4779	4779	6/6	6/6	3000	3450
	4000	4000	1613	1541	2625	2625	5079	5079	6/6	6/6	2950	3300
	4000	4000	988	916	2000	2000	5079	5079	6/6	6/6	2900	3250
	4350	4300	1113	1041	2125	2125	5429	5429	6/6	6/6	2700	3150
	4500	4500	1163	1091	2175	2175	5579	5579	6/6	6/6	2600	3000
	4800	4800	1263	1191	2275	2275	5879	5879	6/6	6/6	2400	2800
	5000	5000	1406	1334	2418	2418	6079	6079	6/6	6/6	2300	2650
	5500	5500	1640	1568	2652	2652	6579	6579	3/6	3/6	1800	2200
	6000	6000	1873	1801	2885	2885	7079	7079	3/6	3/6	1400	1500
	6500	6500	2107	2034	3118	3118	7579	7579	3/3	3/3	800	900

FD30N Free lift height with no load backrest, backrest height is 425mm

FD35N Free lift height with no load backrest, backrest height is 460mm

2-3.5T IC truck main spec									
General	1	Model				FD20	FD25	FD30	FD35
	2	Rated capacity			kg	2000	2500	3000	3500
	3	Load center			mm	500	500	500	500
Characteristic & Dimension	4	Lift height			mm	3000	3000	3000	3000
	5	Mast tilt angle	F/R		Deg	6/10	6/10	6/10	6/10
	6	Fork	L×W×T		mm	1070×100×45	1070×122×40	1070×125×45	1070×130×50
	7		Regulating range		mm	200-1040	200-1040	250-1100	260-1100
	8	Front overhang			mm	478	478	478	478
	9	Rear overhang			mm	496	543	530	607
	10	Mast width		Outer width of steel channel	mm	700	700	700	700
	11	Min ground clearance (Bottom of frame)		Unladen	mm	131	131	156	156
	Laden			mm	120	120	140	140	
	13	Min ground clearance (Bottom of mast)		Unladen	mm	125	125	140	140
	Laden			mm	115	115	130	130	
	15	Overall dimensions	Overall length (without forks)		mm	2560	2620	2700	2770
	16		Overall width		mm	1150	1150	1210	1210
	17		Overall height	Overhead guard height	mm	2180	2180	2205	2205
	18			Mast	mm	2010	2010	2075	2150
	19			Mast extended height	mm	4090	4090	4182	4177
	20			Min turning radius		mm	2180	2230	2450
	21		Wheelbase			mm	1600	1600	1700
	22	Traction pin height from the ground			mm	305	305	330	330
	23	Lowered seat to overall guard inside height			mm	1050	1050	1050	1050
	24	Tyre pressure	Front		MPa	0.86	0.86	0.97	0.97
	25		Rear		MPa	0.86	0.86	0.79	0.79
	26	Tread	Front		mm	970	970	1000	1000
	27		Rear		mm	980	980	980	980
	28	Tyre center height from he ground	Unladen	Front	mm	320	320	345	345
	29			Rear	mm	250	250	260	260
	30		Laden	Front	mm	310	310	330	330
	31			Rear	mm	265	265	280	280
	Performance	32	Speed	Travel (Unladen/Laden)		km/h	18/17	18/17	19/18
33		Lifting (Unladen/Laden)		mm/sec	520/490	520/490	460/430	460/430	
34		Lowering (Unladen/Laden)		mm/sec	420/380	420/380	400/380	400/380	
35		Max drawbar pull (Unladen/Laden)			KN	15/17	15/17	15/17	15/17
36		Max gradeability (Unladen/Laden)			%	20	20	20	18
37		Ramp parking brake			%	15	15	15	15
38		Braking distance			m	≤6	≤6	≤6	≤6
39		System pressure			MPa	18.5	18.5	18.5	20.5
Weight	40	Self weight			kg	3400	3635	4340	4710
	41	Weight distribution	Laden	Front	kg	4760	5385	6520	7250
	42			Rear	kg	640	650	820	960
	43		Unladen	Front	kg	1540	1500	1750	1690
	44			Rear	kg	1860	2135	2590	3020
	45	Tyre	Front		/	7.00-12-12PR	7.00-12-12PR	28*9-15-14PR	28*9-15-14PR
	46		Rear		/	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR