NOBLELIFT

1600 - 2000KG

FE3D16/18/20N

3-WHEEL ELECTRIC TWIN-MOTOR FORKLIFT TRUCK

- Ergonomic
- Respect for the environment
- Easy mainte nance
- Best value for money
- Capacity 1600-2000kg
- High performance

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

FE3D16-18-20N - PRODUCT FEATURES

// 48-volt AC motor system with lower maintenance costs

Equipped with the Total AC system, which uses two AC motors and a hydraulic AC motor, N Series trucks achieve high performance while being economical. AC motors eliminate the need for motor checks and repairs, significantly reducing routine maintenance costs.

AC motors also offer high efficiency, long life and longer running times than conventional DC motors. The truck's energy-saving function improves uptime while maintaining productivity and performance.

// A powerful engine

The N Series dual front-wheel-drive AC motors provide driving power and excellent steering performance in all types of conditions. Truck stability is enhanced by a lowered battery that keeps the truck's centre of gravity closer to the ground.

// Curtis intelligent control system

Curtis' advanced electronic control system regulates or monitors all required forklift functions in all situations and settings to ensure the best efficiency and engine performance. The Curtis Self Diagnostic and Intelligent Monitoring System (IMS) display indicators are tested to ensure that they are functioning as intended.
to ensure the highest level of reliability of the forklift truck during operation.
how it works.

// Excellent safety and reliability

The N Series is equipped with an oil-immersed disc brake system. The quality of braking reduces wear and increases operator comfort.

The emergency power cut-off, located on the right-hand side near the control levers, ensures rapid emergency stop in the event of danger. The driver presence detection system ensures that the truck is only used when the driver is seated, to avoid incidents caused by unauthorised persons. The operator restraint system with retractable seatbelt is essential for safe operation.

FE3D16-18-20N - P R O D U C T FEATURES

// A high level of comfort and an ergonomic design for easy, c o m f o r t a b l e use

The design of the N Series puts a premium on ergonomics and operator comfort. The trucks in the series guarantee optimum efficiency and productivity, while ensuring simple, comfortable operation.

The electric forklift range is fitted as standard with a new ergonomic steering wheel with a reduced diameter and a steering wheel ball. Its latest-generation hydrostatic power steering (FHPS) ensures smooth, precise operation.

N Series trucks are 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. Equipped with a host of features, including a rear handle with horn, left and right mirrors, USB connector, LED lights, Blue spotlights, etc., providing maximum operator safety and comfort.

FE3D16-18-20N - PRODUCT FEATURES

// Easy access for servicing and maintenance

N Series trucks are equipped with a gas-assisted battery cover, making it easy to check and service the battery. Downtime is also reduced by the use of the Curtis self-diagnosis system, which makes troubleshooting and repairs quick and simple.
The engine is housed in an enclosure designed to protect against the ingress of dust, water and other contaminants. The bonnet can be removed to make servicing and maintenance quick and easy.

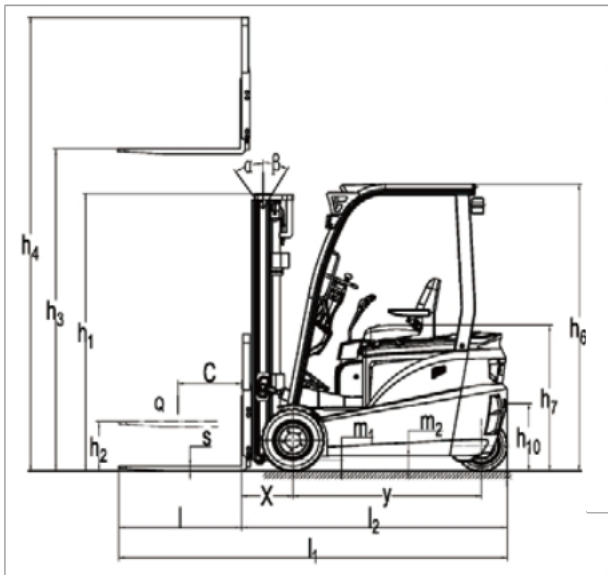
// An ingenious battery access hatch

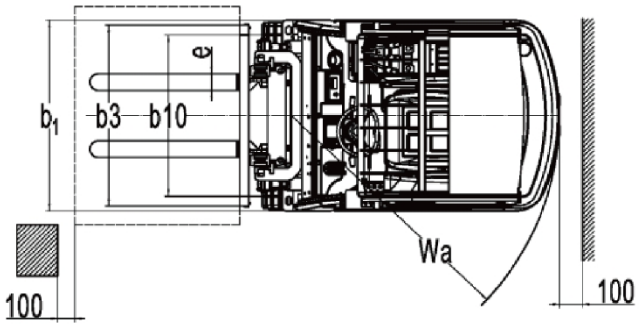
The N Series offers a number of ways to easily remove and replace the battery on the truck, ensuring fast performance and continuous operation. You can access the battery from the side or the top.

FE3D16-18-20N mast table

1600 - 2000kg

Designation	Lifting height	Free lift h2 (mm)	Height of closed mast h1 (mm)	Extended mast height h4 (mm)	Forward/reverse tilt α / β (°)	Table capacity(kg) C=500(mm) without tyre sideshift		
						FE3D16N	FE3D18N	FE3D20N
Duplex	2500	125	1758	3481	5/7	1600	1800	2000
	2700	125	1858	3681	5/7	1600	1800	2000
	3000	125	2008	3981	5/7	1600	1800	2000
	3300	125	2158	4281	5/7	1600	1800	2000
	3500	125	2258	4481	5/7	1600	1800	2000
	3600	125	2308	4581	5/7	1600	1800	2000
	3700	125	2358	4681	5/7	1600	1800	2000
	4000	125	2558	4981	3/5	1500	1800	2000
	4300	125	2708	5281	3/5	1450	1700	1900
	4500	125	2808	5481	3/5	1400	1600	1800
	5000	125	3083	5981	3/5	1200	1500	1600
Duplex Large free lift	2500	793	1758	3474	5/7	1600	1800	2000
	2700	893	1858	3674	5/7	1600	1800	2000
	3000	1043	2008	3974	5/7	1600	1800	2000
	3300	1193	2158	4274	5/7	1600	1800	2000
	3500	1293	2258	4474	5/7	1600	1800	2000
	3700	1393	2358	4674	5/7	1600	1800	2000
	4000	1593	2558	4974	3/5	1500	1750	1900
Triplex	4000	988	1953	4980	3/5	1500	1750	1900
	4350	1113	2078	5329	3/5	1450	1700	1850
	4500	1163	2128	5479	3/5	1400	1600	1800
	4800	1263	2228	5779	3/5	1300	1500	1600
	5000	1363	2328	5979	3/5	1200	1450	1500
	5500	1513	2478	6479	3/5	1100	1200	1300
	6000	1713	2678	6979	3/5	800	900	1000
	6500	1913	2878	7479	3/5	-	-	750





Identification					
1.1	Manufacturer's type designation		FE3D16N	FE3D18N	FE3D20N
1.2	Transmission: electric (battery or mains), diesel, petrol, manual		electric		
1.3	Type of operation (manual, pedestrian, standing, sitting, order preparation)		base		
1.4	Load capacity/rated load	Q(kg)	1600	1800	2000
1.5	Centre of gravity	c(mm)	500		
1.6	Load distance between the centre of the drive axle and the fork	x(mm)	372	377	
1.7	Wheelbase	y(mm)	1360		
Weight					
2.1	Operating weight with battery	kg	3060	3160	3420
2.2	Axle load, front/rear laden	kg	4160/500	4450/510	4880/540
2.3	Axle load, unladen front / rear	kg	1470/1610	1530/1650	1670/1750
Wheels, chassis					
3.1	Type: solid rubber, superelastic, pneumatic, polyurethane		super-elastic		
3.2	Front tyre size		18X7-8		200/50-10
3.3	Rear tyre size		15X4½-8	15X4½-8	15X4½-8
3.4	Number of front/rear wheels (x = drive wheels)		2x/2		
3.5	Front track width	b10(mm)	960		984
3.6	Rear track width	b11(mm)	180		
Basic dimensions					
4.1	Mast/fork carriage tilt front/rear	α/β (°)	5/7		
4.2	Height of retracted mast	h1(mm)	2008		
4.3	Free lift	h2(mm)	125		
4.4	Basic lift height	h3(mm)	3000		
4.5	Deployed mast height	h4(mm)	3981		
4.6	Height of protective roof (cab)	h6(mm)	2075		
4.7	Seat height	h7(mm)	1030		
4.8	Hitch height	h10(mm)	465		
4.9	Total length	l1(mm)	2845	3000	3130
4.10	Length to front of forks	l2(mm)	1925	1930	2060
4.11	Total width	b1(mm)	1135		
4.12	Fork dimensions	L/l/h(mm)	35/100/920	40/100/1070	40/120/1070
4.13	Fork carriage width	b3(mm)	1040		
4.14	Loaded ground clearance under mast	m1(mm)	123		
4.15	Ground clearance, centre of trolley	m2(mm)	105		
4.16	Aisle width for 1000x1200 pallets crosswise	Ast(mm)	3248	3253	3383
4.17	Aisle width for pallets 800x1200 in length	Ast(mm)	3373	3377	3507
4.18	Turning radius	Wa(mm)	1550		1680
Performance data					
5.1	Travel speed with/without load	km/h	14/15		
5.2	Lift speed with/without load	m/s	0.32/0.42		
5.3	Lowering speed, loaded/unloaded	m/s	≤6		
5.4	Traction, loaded/unloaded S2 60 min	N	13000	14000	16000
5.6	Maximum gradient performance, loaded/unloaded S2 5 min	%	15/20		13/18
5.7	Service brake		hydraulics		
Electric motor					
6.1	Traction motor power S2 60 min	kW	4.5x2		
6.2	Lifting motor output at S3 15%.	kW	8.6		
6.3	Standard battery		BS	BS	BS
6.4	Battery voltage, nominal capacity K5	V/Ah	48/455 (48/490 48/560)		
6.5	Battery weight	kg	800		
6.6	Battery dimensions l/w/h	mm	980x538x670		
Further information					
7.1	Type of drive control		AC		
7.2	Hydraulic pressure for equipment	Mpa	17.5		
7.3	Oil volume for accessories	l/min	36		
7.4	Acoustic pressure level EN 12 053	dB(A)	70		

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