

WE PROMISE | WE DELIVER

NOBLELIFT
CANADA 

FE3R 08-12N

3-Wheel Rear Drive Forklift
Capacity 800-1200KG - 1500-2500lbs



Lithium
Battery

CAN-bus

CAN-bus



High
Performance



Easy
Maintenance



Ergonomic
Design



CSA UL

Compact Power. Maximum Maneuverability



FE3R 08-12N

The Noblelift FE3R 08-12N is designed for operations that require precision handling in tight spaces. With its compact 3-wheel rear-drive design and small turning radius, this electric forklift delivers exceptional maneuverability without compromising stability or operator comfort.

Ideal for warehouses, manufacturing facilities, and narrow aisle applications, the FE3R series combines efficient electric performance with smooth handling and reliable day-to-day operation. Its ultra-compact design allows it to fit through most standard doorways, making it an excellent solution for facilities with limited space, tight access points, and indoor material handling requirements.

Highlights

- ✓ Compact 3-wheel rear-drive configuration
- ✓ 800–1200 kg / 1500-2500 lbs lifting capacity
- ✓ Ergonomic operator compartment
- ✓ Maintenance-friendly AC drive system
- ✓ Available lift heights up to 197 in
- ✓ Excellent turning radius for confined spaces



The compact design allows for a 360 degree zero-turning radius, enabling the truck to operate in confined spaces.

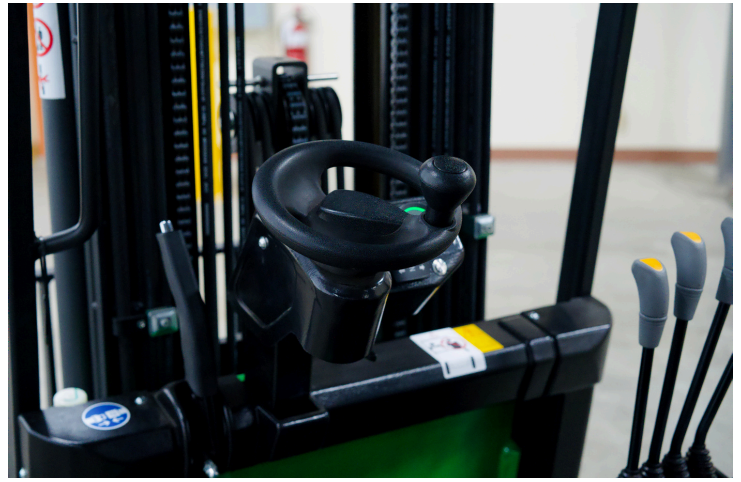
Designed for Operator Comfort and Control

The spacious and user-friendly design ensure maximum operator comfort throughout the entire work shift. A low entrance height allows for easy and safe access. The seat is fully adjustable for operators of all sizes, it minimizes the vibrations and reduces fatigue.





BDI display showing battery status, travel speed, and error codes steering angle position for enhanced operator awareness



Compact steering wheel with independent steering motor for precise handling and effortless maneuverability



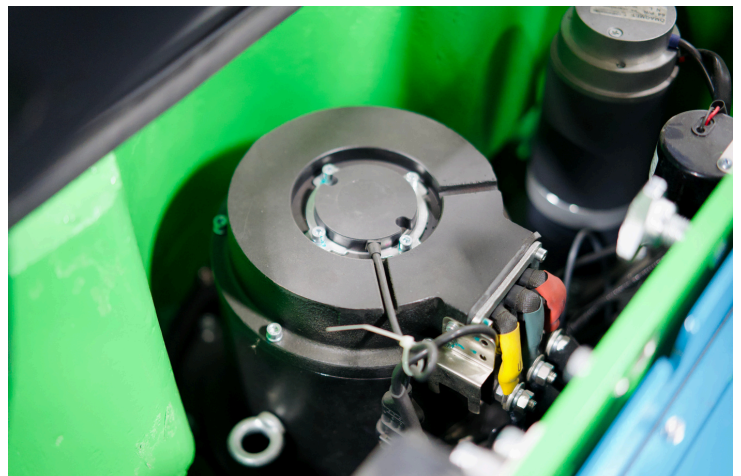
Optional 4-valve hydraulic configuration allowing the use of side shifters and fork positioners for increased versatility



Full lighting package with excellent visibility through the overhead guard.



Maintenance-free lithium battery with opportunity charging capabilities for maximum uptime and productivity



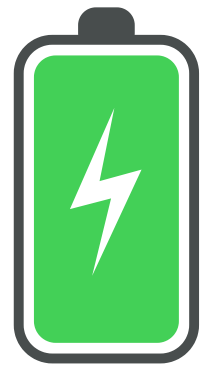
Maintenance-free AC drive and steering motors delivering reliable performance and lower operating costs

Advantages of Lithium-ion Power

Effortless Charging for Continuous Operation

The fast-charging, maintenance-free lithium battery reaches a full charge in just 2 hours. It supports opportunity charging during breaks and shift changes, enabling the truck to operate seamlessly through multi-shift schedules without the need for battery replacements.

- ✓ 24V/206-214-277-412Ah Lithium-iron battery
- ✓ 24V/40Ah/200Ah Charger



Designed for Operator Comfort and Control

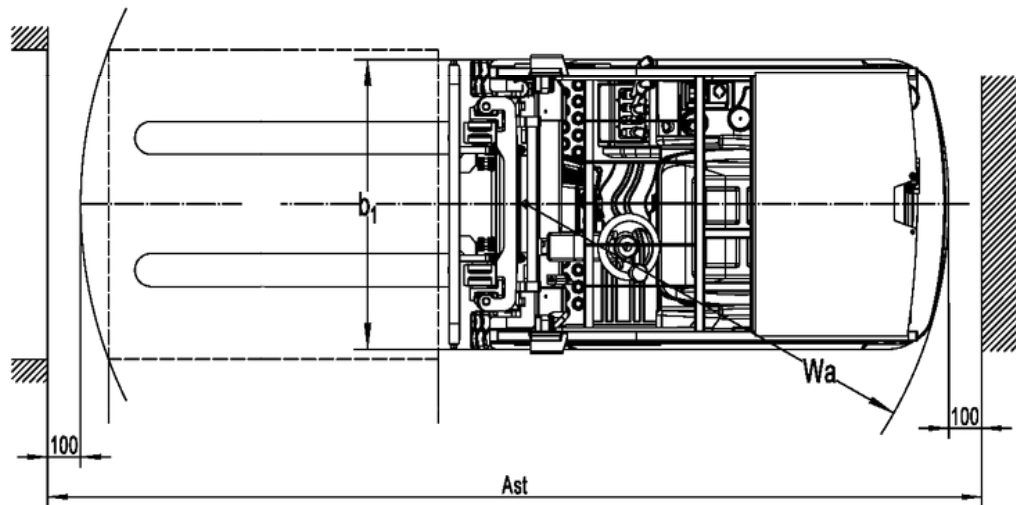
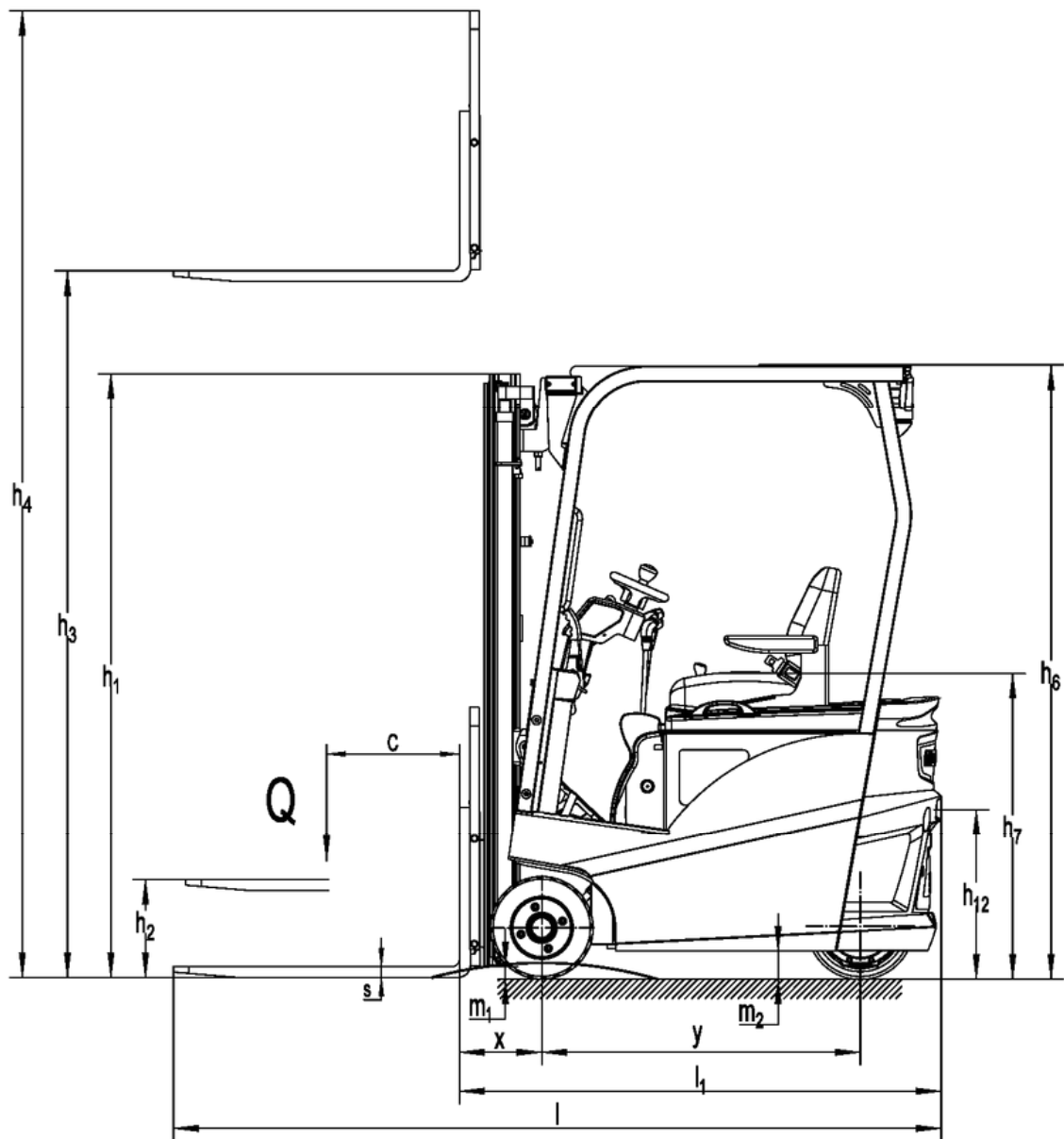
Noblelift utilizes lithium-ion phosphate batteries, known for their exceptional longevity and safety. These lithium-iron batteries feature a Battery Management System (BMS), a thermal management system, and an automotive-grade DC voltage control system.

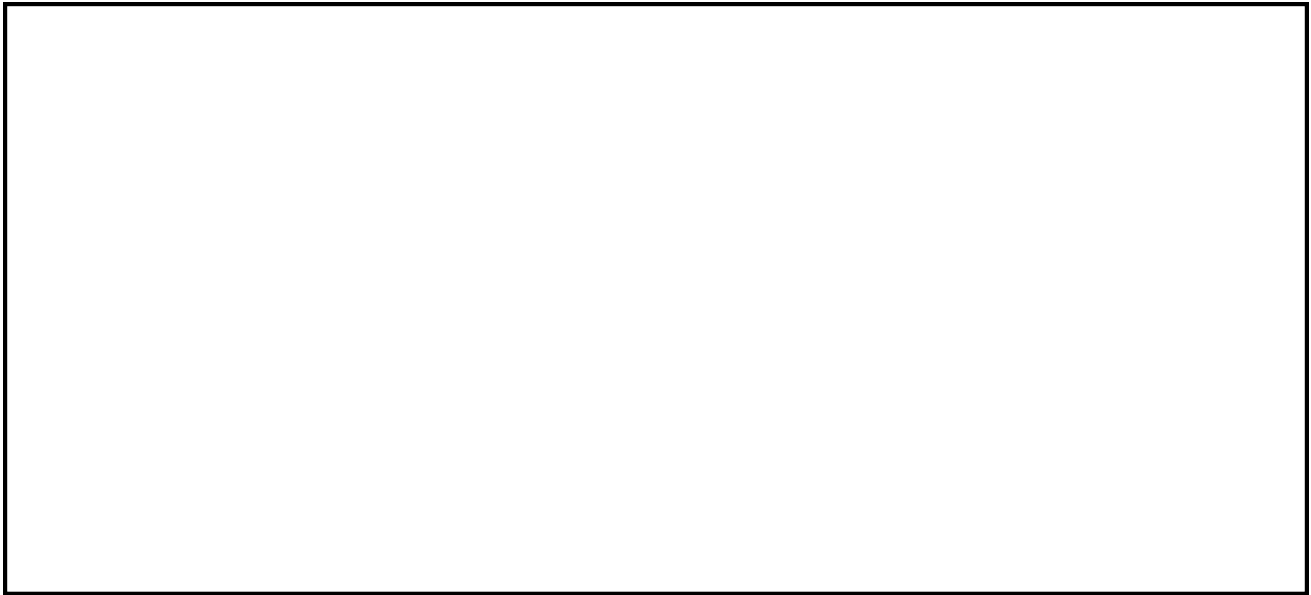
*FE3R 08-12N has a **10-year or 20,000 hours** warranty on the lithium-ion battery cells.*



Identification					
1.1	Manufacturer		Noblelift		
1.2	Model		FE3R08N	FE3R10N	FE3R12N
1.3	Drive		Lithium Electric		
1.4	Type of Operation		Seated		
1.5	Load capacity / rated load	Q lb(kg)	1500 (800)	2000 (1000)	2500 (1200)
1.6	Load center distance	c in(mm)	19.7(500)		
1.8	Load distance	x in(mm)	10.4 (265)		
1.9	Wheel base	y in(mm)	33.1/36.3 (841/923)	37.4/40.7 (951/1033)	39/42.2 (991/1073)
Weights					
2.1	Service weight included battery (see line 6.5)	lb (kg)	3960 (1800)	4202 (1910)	4576 (2080)
2.2	Axle loading, laden front / rear	lb (kg)	5060/660(2300/300)	5720/682(2600/310)	6490/726(2950/330)
2.3	Axle loading, unladen front / rear	lb (kg)	1694/2244(770/1020)	1870/2332(850/1060)	1936/2684(880/1220)
Wheels, Chassis					
3.1	Tires		Solid rubber		
3.2	Tire size, front		13×4 1/2×8		
3.3	Tire size, rear		250×82		
3.5	Wheels, number front / rear (x=driven wheels)		2/1×		
3.6	Track width, front	b10 (in/mm)	30.1/765		
3.7	Track width, rear	b11 (in/mm)	0		
Basic Dimensions					
4.1	Mast/Fork carriage tilt f/b	α/β(o)	3/5		
4.2	Lowered mast height	h1 (in/mm)	77.4 (1965)		
4.3	Free lift	h2 (in/mm)	3.7 (95)		
4.4	Lift height	h3 (in/mm)	118.1 (3000)		
4.5	Extended mast height	h4 (in/mm)	152.2 (3865)		
4.7	Overhead load guard height	h6 (in/mm)	77.8 (1975)		
4.8	Seat height/standing height	h7 (in/mm)	38.6 (980)		
4.12	Coupling height	h12 (in/mm)	21.3 (540)		
4.19	Overall length	L1 (in/mm)	90.2 (2290)	94.5 (2400)	96.9 (2460)
4.20	Length to face of forks	L2 (in/mm)	53.9 (2155)	58.3 (1480)	60.8 (1545)
4.21	Overall width	b1 (in/mm)	34.6 (880)		
4.22	Fork dimensions	s/e/l (in/mm)	1.4/3.9/36.2 (35/100/920)		
4.24	Fork carriage width	b3 (in/mm)	32.5 (825)		
4.31	Ground clearance, laden, under mast	m1 (in/mm)	3.1 (80)		
4.32	Ground clearance, center of wheelbase	m2 (in/mm)	3.5 (90)		
4.33	Aisle width of pallets 1000x1200L	Ast (in/mm)	106.9 (2716)	115 (2921)	116.2 (2951)
4.34	Aisle width of pallets 800x1200L	Ast (in/mm)	113.3 (2879)	119.6 (3039)	120.8 (3069)
4.35	Turning radius	Wa (in/mm)	45.7 (1160)	52(1320)	53.1 (1350)
Performance Data					
5.1	Travel speed, laden/unladen	mph (km/h)	5.0/5.6 (8/9)	4.7/5.6 (7.5/9)	4.3/5.6 (7/9)
5.2	Lift speed, laden/unladen	mph (km/h)	3.3/5.5 (0.17/0.28)	3.2/4.3 (0.16/0.22)	3.0/4.3 (0.15/0.22)
5.3	Lowering speed, laden/unladen	mph (km/h)	4.5/4.3 (0.23/0.22)	3.2/3.9 (0.16/0.20)	3.3/3.9 (0.17/0.20)
5.5	Drawbar pull, laden/unladen S2 60min	lbf(N)	3300/3740 (1500/1700)		
5.7	Max gradient performance, laden/unladen S2 5min	%	6/10		
5.10	Service brake		Hydraulic		
E-Motor					
6.1	Drive motor rating S2 60 min	hp / kW	3.4/2.5		
6.2	Lift motor rating at S3 15%	hp / kW	4/3		
6.3	Battery standard		DIN		
6.4	Battery voltage,nominal capacity K5	V/Ah	Lead-acid:24/280(360/400) Lion:25.6/206(277)	Lead-acid:24/420(480/540) Lion:25.6/277(412)	Lead-acid:24/420(480/540) Lion:25.6/277(412)
6.5	Battery weight	kg	280/364/428	392/440/488	392/440/488
	Battery dimensions l/w/h	mm	806/263/628	806/372/628	806/372/628

Mast Table						Capacity Table (lbs)			Capacity Table (lbs)		
Designation	Lift Height	Free Lift	Closed Mast Height	Extended Mast Height	Tilt Forward /Backward	C=24mm without sideshift single solid tyres					
	h3 in	h2 in	h1 in	h4 in	α/β(°)	08N	10N	12N	08N	10N	12N
Two-Stage ZT	98	4	68	132	3/5	1760	2200	2640	1550	1940	2330
	106	4	71	140	3/5	1760	2200	2640	1550	1940	2330
	118	4	77	152	3/5	1760	2200	2640	1550	1940	2330
	130	4	85	164	3/5	1650	2200	2640	1450	1940	2330
	138	4	87	172	3/5	1584	2024	2310	1400	1790	2040
	146	4	91	180	3/5	1540	1870	2090	1360	1650	1840
	157	4	99	192	3/5	1430	1760	1980	1260	1550	1750
Two-Stage ZZ	98	34	68	132	3/5	1760	2200	2640	1550	1940	2330
	106	38	71	140	3/5	1760	2200	2640	1550	1940	2330
	118	44	77	152	3/5	1760	2200	2640	1550	1940	2330
	130	50	85	164	3/5	1650	2200	2640	1450	1940	2330
	138	54	87	172	3/5	1584	2024	2310	1400	1790	2040
	146	58	91	180	3/5	1540	1760	2090	1360	1550	1840
	157	64	99	192	3/5	1430	1650	1980	1260	1450	1750
Three-stage DZ	157	42	75	192	3/5		1650	1980		1450	1750
	171	46	79	205	3/3		1430	1760		1260	1550
	177	48	81	211	3/3		1210	1540		1070	1360
	189	52	85	223	3/3		990	1210		870	1070
	197	56	89	231	3/3		880	990		770	870





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