

- Smart & Compact Design with Great Mobility
- Maintenance-free AC Drive System
- Intelligent Computer Controller System
- On-board Self-Diagnostic Display
- Excellent Safety and Reliability
- Easy Service & Maintenance
- Standard Side Battery Extraction
- Great Comfort and Ergonomic Design
- Easy EPS Steering (for FE3R08-12N)

# FE3R N Series

Three-wheel Rear Drive Forklift



**Capacity:**  
800kg  
1000kg  
1200kg

**Maximum lifting Height:**  
3000mm

**Overall Width:**  
880mm

**24Volt  
Zapi Controller**



**Capacity:**  
1600kg

**Maximum lifting Height:**  
3000mm

**Overall Width:**  
1000mm

**48Volt  
Curtis Controller**

**Variable wheelbase design:**  
Mast tilting function realised through the movement of front axle

FE3R08-12N



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Official website



Our Wechat

NOBLELIFT

ISO9001 / ISO14001

# FE3R N Series



**Three-wheel Rear Drive Forklift** 800-1600kg



High Efficiency



High Mobility



Cost-effective



Compact Design

**NEW** *Noblift Products*  
**ARRIVAL**

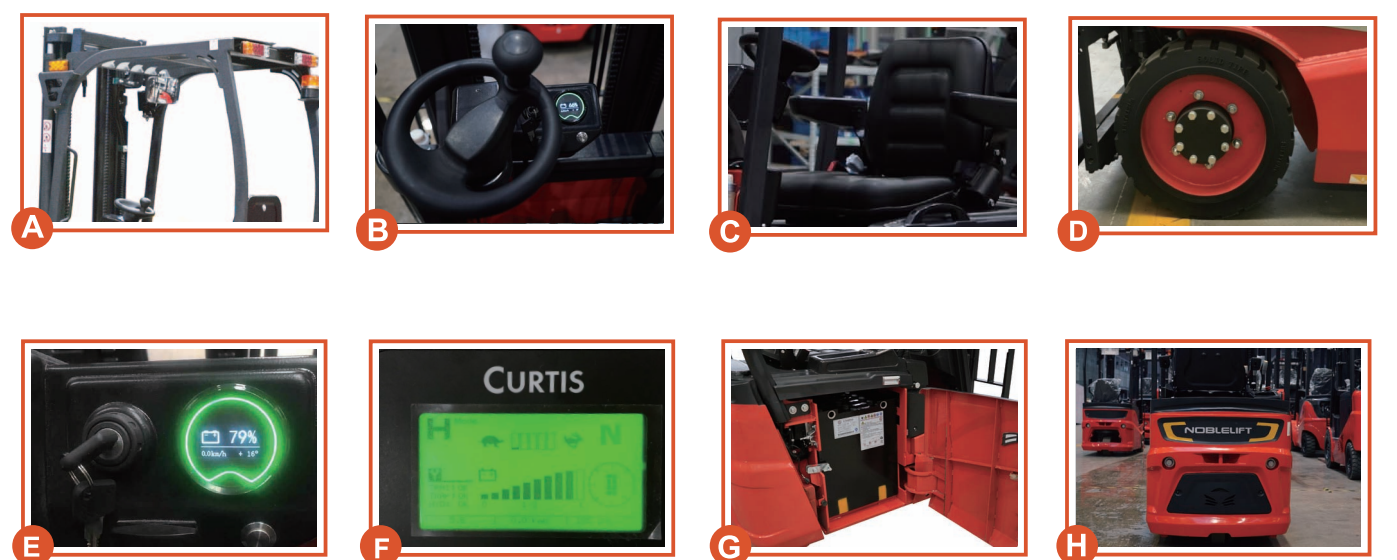


# FE3R N Series

## Three-wheel Rear Drive Forklift



■ Battery compartment with fork pockets for 16N



**A** Front LED Lights, Steering lights, Rear Combination Lights, Warning light standard, safe to work in dark environment such as containers or in the night.  
**B-C** Small Diameter Steering Wheel with Spinner Knob, Adjustable Steering wheel position and seat to optimize the comfortness of the operator for long time operation.  
**D** Small Diameter Solid Front Wheels for easy and smooth motion.  
**E** Intelligent ZAPI or Curtis Self-diagnostic display for easy operation and maintenance. Standard Rear Wheel Position Sensor & Display with Speed Reduction at Turning.  
**F** Intelligent ZAPI or Curtis Self-diagnostic display for easy operation and maintenance. Standard Rear Wheel Position Sensor & Display with Speed Reduction at Turning.  
**G** Optional different battery capacities for different operation needs, optional Aquamatic battery self-filling system for easy battery maintenance.  
**H** Extremely compact design with small width and turning radius for easy operation in confined spaces.

FE3R08-12N Mast Table								
Designation	Lift height h <sub>3</sub> (mm)	Free lift h <sub>2</sub> (mm)	Closed mast height h <sub>1</sub> (mm)	Extended mast height h <sub>4</sub> (mm)	Tilt forward/backward α/β (°)	Capacity table(kg) C=500mm without sideshift, single solid tyres		
						FE3R08N	FE3R10N	FE3R12N
Two-stage ZT	2500	95	1715	3365	3/5	800	1000	1200
	2700	95	1815	3565	3/5	800	1000	1200
	3000	95	1965	3865	3/5	800	1000	1200
	3300	95	2155	4165	3/5	750	1000	1200
	3500	95	2215	4365	3/5	720	920	1050
	3700	95	2315	4565	3/5	700	850	950
Two-stage ZZ	2500	875	1715	3365	3/5	800	1000	1200
	2700	975	1815	3565	3/5	800	1000	1200
	3000	1125	1965	3865	3/5	800	1000	1200
	3300	1275	2155	4165	3/5	750	1000	1200
	3500	1375	2215	4365	3/5	720	920	1050
	3700	1475	2315	4565	3/5	700	800	950
Three-stage DZ	4000	1625	2515	4865	3/5	650	750	900
	4000	1061	1900	3565	3/5	/	750	900
	4350	1161	2000	3790	3/3	/	650	800
	4500	1211	2050	3890	3/3	/	550	700
	4800	1311	2150	4090	3/3	/	450	550
	5000	1411	2250	4240	3/3	/	400	450

Free lift height (no load-backrest) +305mm

FE3R16N Mast Table							
Designation	Lift height h <sub>3</sub> (mm)	Free lift h <sub>2</sub> (mm)	Closed mast height h <sub>1</sub> (mm)	Extended mast height h <sub>4</sub> (mm)	Tilt forward/backward α/β (°)	Capacity table(kg) C=500mm without sideshift, single solid tyres	
						FE3R16N	FE3R16N
Two-stage ZT	2500	105	1747	3480	4/4	1600	1600
	2700	105	1847	3680	4/4	1600	1600
	3000	105	1997	3980	4/4	1600	1600
	3300	105	2147	4280	4/4	1600	1600
	3500	105	2247	4480	4/4	1600	1600
	3700	105	2347	4680	4/4	1500	1500
	4000	105	2547	4980	4/4	1450	1450
	4300	105	2697	5280	4/4	1350	1350
	4500	105	2797	5480	4/4	1250	1250
	5000	105	3072	5980	4/4	1150	1150
Two-stage ZZ	2500	792	1747	3494	4/4	1600	1600
	2700	892	1847	3694	4/4	1600	1600
	3000	1042	1997	3994	4/4	1600	1600
	3300	1192	2147	4294	4/4	1600	1600
	3500	1292	2247	4494	4/4	1600	1600
	3700	1392	2347	4694	4/4	1500	1500
	4000	1592	2547	4994	4/4	1450	1450
	4300	1742	2697	5294	4/4	1400	1400
	4500	1842	2797	5494	4/4	1300	1300
	4000	1386	1934	4974	4/4	1500	1500
Three-stage DZ	4350	1510	2059	5322	4/4	1400	1400
	4500	1560	2109	5472	4/4	1300	1300
	4800	1660	2209	5772	4/4	1200	1200
	5000	1760	2309	5972	4/4	1150	1150
	5500	1910	2459	6472	4/4	1050	1050
	6000	2110	2659	6979	4/4	950	950

Free lift height (no load-backrest) +434mm

N Battery Balance Weight Type Forklift (VDI 2198)					
Identification					
1.1	Manufacture(abbreviation)		NOBLELIFT		
1.2	Manufacturer's type designation	FE3R08N	FE3R10N	FE3R12N	FE3R16N
1.3	Drive:electric(battery or mains),diesel,petrol gas,manual	Electric	Electric	Electric	Electric
1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)	Seated	Seated	Seated	Seated
1.5	Load capacity/rated load	Q(kg)	800	1000	1200
1.6	Load centre distance	C(mm)	500	500	500
1.8	Load distance,centre of drive axle to fork	x(mm)	265	265	265
1.9	wheelbase	y(mm)	841/923	951/1033	991/1073
Weights					
2.1	Service weight incl. battery(see line 6.5)	kg	1800	1910	2080
2.2	Axle loading, laden front/rear	kg	2300/300	2600/310	2950/330
2.3	Axle loading,unladen front/rear	kg	770/1020	850/1060	880/1220
Wheels - Chassis					
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		solid rubber/polyurethane	solid rubber/polyurethane	solid rubber/polyurethane
3.2	Tyres size,front		13x4 1/2x8	13x4 1/2x8	18x7x12 1/8
3.3	Tyres size,rear		φ250x82	φ250x82	φ343x140
3.5	Wheels,number front/rear(x=driven wheels)		2/1x	2/1x	2/1x
3.6	Track width,front	b <sub>1</sub> (mm)	765	765	765
3.7	Track width,rear	b <sub>2</sub> (mm)	/	/	/
Basic Dimensions					
4.1	Mast/fork carriage tilt forward/backward	α/β(°)	3/5	3/5	3/5
4.2	lowered mast height	h <sub>1</sub> (mm)	1965	1965	1965
4.3	Free lift	h <sub>2</sub> (mm)	95	95	95
4.4	Lift height	h <sub>3</sub> (mm)	3000	3000	3000
4.5	Extended mast height	h <sub>4</sub> (mm)	3865	3865	3980
4.7	Overhead load guardheight	h <sub>5</sub> (mm)	1975	1975	2110
4.8	Seat height/standing height	h <sub>6</sub> (mm)	980	980	1050
4.12	Coupling height	h <sub>7</sub> (mm)	540	540	570
4.19	Overall length	l <sub>1</sub> (mm)	2290	2400	2460
4.20	Length to face of forks	l <sub>2</sub> (mm)	1370	1480	1545
4.21	Overall width	b <sub>3</sub> (mm)	880	880	880
4.22	Fork dimensions	s/e/l(mm)	35/100/920	35/100/920	35/100/920
4.24	Fork carriage width	l <sub>3</sub> (mm)	825	825	825
4.31	Ground clearance, laden,under mast	m <sub>1</sub> (mm)	80	80	80
4.32	Ground clearance,centre of wheelbase	m <sub>2</sub> (mm)	90	90	97
4.33	Aisle width for pallets 1000x1200 crossways	Ast <sub>1</sub> (mm)	2760	2920	2950
4.34	Aisle width for pallets 800x1200 lengthways	Ast <sub>2</sub> (mm)	2878	3038	3068
4.35	Turning radius	Wa(mm)	1160	1320	1350
Performance Data					
5.1	Travel speed,laden/unladen	km/h	8/9	7.5/9	7/9
5.2	Lift speed,laden/unladen	m/s	0.17/0.28	0.16/0.22	0.15/0.22
5.3	lowering speed,laden/unladen	m/s	0.23/0.22	0.16/0.20	0.17/0.20
5.5	Drawbar pull,laden/unladen S2 60 min	N	1500/1700	1500/1700	1800/2300
5.7	Max.Gradient performance,laden/unladen S2 5 min	%	6/10	6/10	6/10
5.10	Service brake		hydr.	hydr.	hydr.
E-Motor					
6.1	Drive motor rating S <sub>2</sub> 60 min	kW	2.5	2.5	3
6.2	Lift motor rating at S <sub>2</sub> 15%	kW	3	3	3
6.3	Battery standard		DIN	DIN	DIN
6.4	Battery voltage,nominal capacity K5	V/Ah	24/290 (360/400)(Optional)	24/420 (480/540)(Optional)	24/420 (480/540)(Optional)
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
Other Details					
8.1	Type of drive control		AC	AC	AC
8.2	Operating pressure for attachments	MPa	11.5	13.5	15.5
8.3	Oil volume for attachments	l/min	16	16	16
8.4	Sound level at driver's ear according to EN 12 053	dB(A)	70	70	70