


# FE3R N Series

ISO9001 / ISO14001  
//2019.01



**Three-wheel Rear Drive Forklift**

 1500-3500lbs



**NEW** *Noblelift Products*  
**ARRIVAL**



- 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 FE3R15-25N)

# FE3R N Series

## Three-wheel Rear Drive Forklift

### Capacity:

1500lbs  
2000lbs  
2500lbs

### Maximum lifting

#### Height:

15N-157in  
20/25N-197in

### Overall Width:

35inch



**24Volt  
Zapi Controller**

### Capacity:

3500lbs

### Maximum lifting Height:

236in

### Overall Width:

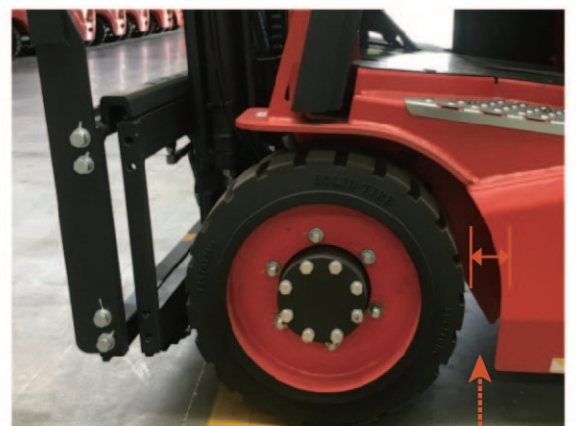
40inch



**48Volt  
Curtis Controller**

### Variable wheelbase design:

Mast tilting function realised through the movement of front axle





# Three-wheel Rear Drive Forklift FE3R N Series



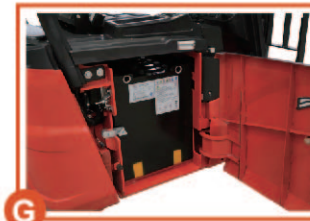
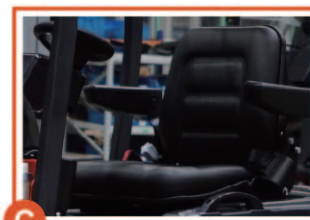
■ Battery compartment with rollers for 15-25N



■ Battery compartment with fork pockets for 35N



Fully openable covers for easy service and maintenance. Standard Side Battery Extraction for easy battery replacement.



**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.

**D** Small Diameter Solid Front Wheels for easy and smooth motion.

**G** Optional different battery capacities for different operation needs, optional Aquamatic battery self-filling system for easy battery maintenance.

**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.

**E-F** Intelligent ZAPI or Curtis Self-diagnostic display for easy operation and maintenance, Standard Rear Wheel Position Sensor & Display with Speed Reduction at Turning.

**H** Extremely compact design with small width and turning radius for easy operation in confined spaces.



**FE3R15-25N Mast Table**

Designation	Lift height $h_3$ (in)	Free lift $h_2$ (in)	Closed mast height $h_1$ (in)	Extended mast height $h_4$ (in)	Tilt forward/backward $\alpha/\beta$ (°)	Capacity table(lbs) C=19.7in without sideshift, single solid tyres		
						FE3R15N	FE3R20N	FE3R25N
Two-stage ZT	98	4	68	132	3/5	1760	2200	2640
	106	4	71	140	3/5	1760	2200	2640
	118	4	77	152	3/5	1760	2200	2640
	130	4	85	164	3/5	1650	2200	2640
	138	4	87	172	3/5	1584	2024	2310
	146	4	91	180	3/5	1540	1870	2090
Two-stage ZZ	157	4	99	192	3/5	1430	1760	1980
	98	34	68	132	3/5	1760	2200	2640
	106	38	71	140	3/5	1760	2200	2640
	118	44	77	152	3/5	1760	2200	2640
	130	50	85	164	3/5	1650	2200	2640
	138	54	87	172	3/5	1548	2024	2310
Three-stage DZ	146	58	91	180	3/5	1540	1760	2090
	157	64	99	192	3/5	1430	1650	1980
	157	42	75	140	3/5	/	1650	1980
	171	46	79	149	3/3	/	1430	1760
	177	48	81	153	3/3	/	1210	1540
	189	52	85	161	3/3	/	9900	1210
	197	56	89	167	3/3	/	880	990

Free lift height (no load-backrest) +12in

**FE3R35N Mast Table**

Designation	Lift height $h_3$ (in)	Free lift $h_2$ (in)	Closed mast height $h_1$ (in)	Extended mast height $h_4$ (in)	Tilt forward/backward $\alpha/\beta$ (°)	Capacity table(lbs) C=19.7in without sideshift, single solid tyres
Two-stage ZT	98	4	69	137	3/6	3520
	106	4	73	145	3/6	3520
	118	4	79	157	3/6	3520
	130	4	85	169	3/6	3520
	138	4	88	176	3/6	3520
	146	4	92	184	3/6	3300
	157	4	100	196	3/3	3190
	169	4	106	208	3/3	1350
	177	4	110	216	3/3	2970
Two-stage ZZ	197	4	121	235	3/3	2750
	98	31	69	138	3/6	2530
	106	35	73	145	3/6	3520
	118	41	79	157	3/6	3520
	130	47	85	169	3/6	3520
	138	51	88	177	3/6	3520
	146	55	92	185	3/6	3300
	157	63	100	197	3/3	3190
	169	69	106	208	3/3	3080
Three-stage DZ	177	73	110	216	3/3	2860
	157	55	76	196	3/3	3300
	171	59	81	210	3/3	3080
	177	61	83	215	3/3	2860
	189	65	87	227	3/3	2640
	197	69	91	235	3/3	2530
	217	75	97	255	3/3	2310
	236	83	105	275	3/3	2090

Free lift height (no load-backrest) +17in



# Three-wheel Rear Drive Forklift FE3R N Series

## N Battery Balance Weight Type Forklift ( VDI 2198)

Identification		NOBLELIFT			
		FE3R15N	FE3R20N	FE3R25N	FE3R35N
1.1	Manufacture(abbreviation)				
1.2	Manufacturer's type designation	FE3R15N	FE3R20N	FE3R25N	FE3R35N
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(lbs) 1760	2200	2640	3520
1.6	Load centre distance	C(in) 19.7	19.7	19.7	19.7
1.8	Load distance,centre of drive axle to fork	x(in) 10.4	10.4	10.4	13.4
1.9	wheelbase	y(in) 33.1/36.3	37.4/40.7	39/42.2	48.8
Weights					
2.1	Service weight incl. battery(see line 6.5)	lbs 3960	4202	4576	6600
2.2	Axle loading ,laden front/rear	lbs 5060/660	5720/682	6490/726	8800/1320
2.3	Axle loading,unladen front/rear	lbs 1694/2244	1870/2332	1936/2684	2816/3784
Wheels, Chassis					
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane	solid rubber/polyurethane	solid rubber/polyurethane	solid rubber/polyurethane	solid rubber/solid rubber
3.2	Tyres size,front	13x4 1/2x8	13x4 1/2x8	13x4 1/2x8	18x7x12 1/8
3.3	Tyres size,rear	ø9.8x3.2	ø9.8x3.2	ø13.5x3.2	18x7-8
3.5	Wheels,number front/rear(X-driven wheels)	2/1X	2/1X	2/1X	2/1X
3.6	Track width,front	b <sub>w</sub> (in) 30.1	30.1	30.1	32.4
3.7	Track width,rear	b <sub>r</sub> (in) /	/	/	36.2
Basic Dimensions					
4.1	Mast/fork carriage tilt forward/backward	α/β(°) 3/5	3/5	3/5	6/10
4.2	lowered mast height	h <sub>1</sub> (in) 77.4	77.4	77.4	78.6
4.3	Free lift	h <sub>2</sub> (in) 3.7	3.7	3.7	4.1
4.4	Lift height	h <sub>3</sub> (in) 118.1	118.1	118.1	118.1
4.5	Extended mast height	h <sub>4</sub> (in) 152.2	3865	152.2	156.7
4.7	Overhead load guardheight	h <sub>5</sub> (in) 77.8	77.8	77.8	81.1
4.8	Seat height/standing height	h <sub>6</sub> (in) 38.6	38.6	38.6	41.3
4.12	Coupling height	h <sub>w</sub> (in) 21.3	21.3	21.3	22.4
4.19	Overall length	l <sub>1</sub> (in) 90.2	94.5	96.9	109.6
4.20	Length to face of forks	l <sub>2</sub> (in) 53.9	58.3	60.8	73.4
4.21	Overall width	b <sub>1</sub> (in) 34.6	34.6	34.6	39.4
4.22	Fork dimensions	s/e/l(in) 1.4/3.9/36.2	1.4/3.9/36.2	1.4/3.9/36.2	1.4/3.9/36.2
4.24	Fork carriage width	l <sub>3</sub> (in) 32.5	32.5	32.5	38.6
4.31	Ground clearance ,laden,under mast	m <sub>1</sub> (in) 3.1	3.1	3.1	3.6
4.32	Ground clearance,centre of wheelbase	m <sub>2</sub> (in) 3.5	3.5	3.5	3.8
4.33	Alsie width for pallets 1000x1200 crossways	Ast(in) 108.7	115.0	116.1	126.9
4.34	Alsie width for pallets 800x1200 lengthways	Ast(in) 113.3	119.6	120.8	130.4
4.35	Turning radius	Wa(in) 45.7	52.0	53.1	59.8
Performance Data					
5.1	Travel speed,laden/unladen	mline/h 5.0/5.6	4.7/5.6	4.3/5.6	6.2/6.8
5.2	Lift speed,laden/unladen	fpm 3.3/5.5	3.2/4.3	3.0/4.3	4.7/7.3
5.3	lowering speed,laden/unladen	fpm 4.5/4.3	3.2/3.9	3.3/3.9	< 11820
5.5	Drawbar pull,laden/unladen S2 60 min	blf 3300/3740	3300/3740	3960/5060	630/1800
5.7	Max.Gradient performance,laden/unladen S2 5 min	% 6/10	6/10	6/10	2.3/2.9
5.10	Service brake	hydr.	hydr.	hydr.	hydr.
E-Motor					
6.1	Drive motor rating S <sub>2</sub> 60 min	hp 3.4	3.4	4	6.7
6.2	Lift motor rating at S <sub>2</sub> 15%	hp 4	3	4	11.5
6.3	Battery standard	DIN 24/280	DIN 24/420	DIN 24/420	DIN 48/350
6.4	Battery voltage,nominal capacity K5	V/Ah (360/400)(Optional)	(480/540)(Optional)	(480/540)(Optional)	48/350 (48/400)
6.5	Battery weight	lbs 616/800/942	862/968/1073	862/968/1073	1430
	Battery dimensions l/w/h	in 31.7/10.3/24.7	31.7/14.6/24.7	31.7/14.6/24.7	30.3x19.1x26.0
Other Details					
8.1	Type of drive control	AC	AC	AC	AC
8.2	Operating pressure for attachments	psi 1700	2000	2200	2537.5
8.3	Oil volume for attachments	gmp 253.6	253.6	253.6	570.6
8.4	Sound level at driver's ear according to EN 12 053	dB(A) 70	70	70	73



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Our Wechat

