

# FE3R12/15E

Three-wheel Counter Balanced Electric Forklift Truck

## ADVANTAGES

### With maintenance-free AC motor:

The driving motor adopts AC motor, which is maintenance-free and powerful. The traditional DC motor needs to replace the carbon brush frequently, while the NOBLELIFT AC motor does not need to replace the carbon brush. And the AC motor also has speed sensing, temperature sensing and complete protection function, so the reliability and service life of this motor is greatly improved.

### With integrated handle design:

The forward and backward direction switch and horn switch are integrated into the handle ball of the lifting multi-way valve to realize combined operation and avoid tedious operation.

### With optimization design:

The transmission system of the truck adopts transverse drive axle, parallel layout, and large transmission ratio.

### Adopt mature fittings of Warehouse trucks:

The hydraulic system adopts the mature fittings of Warehouse trucks and the integrated design of motor pump station. It is equipped with vibration reduction system, and has low noise and comfortable operation.

### With comfortable and easy operation:

The truck adopts EPS electronic power steering, and is energy saving, environmental protection, and easy to operate.



Multi-function display, low power alert, and failure alarm.



Adjustable front and rear seats, adjustable steering wheel (Seat belts and handrails). Meet the best driving position of the driver, reduce the driver's long-time operating fatigue.

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1.2 T  
FE3R12E

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FE3R15E



Three-wheel Counter Balanced Electric Forklift Truck



NEW *Nobelift Products*  
ARRIVAL

NOBLELIFT INTELLIGENT EQUIPMENT CO., LTD



#### Transmission system

The bridge box has integral structure. The transmission system has parallel layout, large transmission ratio, fast speed, strong power, and good climbing performance.



#### Integrated multi-way valve handle

The forward and backward direction switch and horn switch are integrated into the lifting handle to increase operating comfort.



The truck is easy to operate and convenient, and can add USB and so on.



#### Steering axle

The two-wheel structure is more stable in operation. When the power is off, the rear wheels will automatically return to the center. Front-wheel drive and three-pivot design with four wheels. The truck with good stability is equipped with standard rubber solid core tire, and the full load driving speed is up to 9 km/h.



The truck with standard warning lights adopts LED lights, so that you can operate at night.



The truck can work quickly and flexibly in narrow spaces such as lorries and containers.



#### The battery loading and unloading

The battery is removed from the side for easy installation and replacement. And the open cover design makes maintenance more convenient. Multiple battery configurations are optional:  
Standard battery: 48V/200Ah  
Optional battery: 240Ah/280Ah



Handrails are installed to ensure safety.

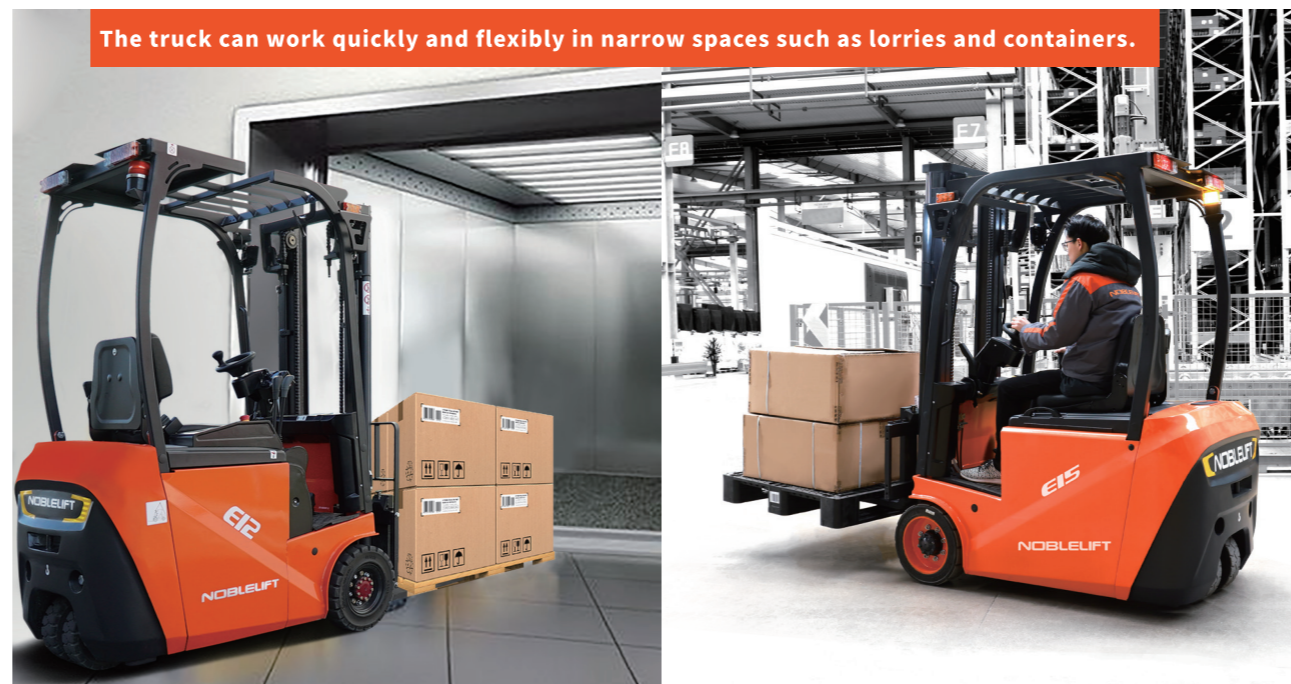
Mast Table FE3R12E						
Designation	Lift height $h_2$ (mm)	Free Lift $h_2$ (mm)	Closed mast height $h_1$ (mm)	Extended mast height $h_4$ (mm)	Tilt forward/backward $\alpha / \beta(^{\circ})$	Capacity table(kg) C=500mm FE3R12E
Two-stage STD	2500	95	1715	3365	3/5	1200
	2700	95	1815	3565	3/5	1200
	3000	95	1965	3865	3/5	1200
	3300	95	2155	4165	3/5	1200
	3500	95	2215	4365	3/5	1050
	3700	95	2315	4565	3/5	950
Two-stage FL	4000	95	2515	4865	3/5	900
	2500	875	1715	3365	3/5	1200
	2700	975	1815	3565	3/5	1200
	3000	1125	1965	3865	3/5	1200
	3300	1275	2155	4165	3/5	1200
	3500	1375	2215	4365	3/5	1050
Three-stage FFL	3700	1475	2315	4565	3/5	950
	4000	1625	2515	4865	3/5	900
	4000	1061	1900	4865	3/5	900
	4350	1161	2000	5215	3/3	800
	4500	1211	2050	5365	3/3	700
	4800	1311	2150	5665	3/3	550

自由提升高度(不带挡货架)+305

Mast Table FE3R15E						
Designation	Lift height $h_2$ (mm)	Free Lift $h_2$ (mm)	Closed mast height $h_1$ (mm)	Extended mast height $h_4$ (mm)	Tilt forward/backward $\alpha / \beta(^{\circ})$	Capacity table(kg) C=500mm FE3R15E
Two-stage STD	2500	95	1720	3480	3/5	1500
	2700	95	1820	3680	3/5	1500
	3000	95	1970	3980	3/5	1500
	3300	95	2120	4280	3/5	1500
	3500	95	2220	4480	3/5	1350
	3700	95	2320	4680	3/5	1150
Two-stage FL	4000	95	2520	4980	3/3	1100
	2500	755	1720	3480	3/5	1500
	2700	855	1820	3680	3/5	1500
	3000	1005	1970	3980	3/5	1500
	3300	1155	2120	4280	3/5	1500
	3500	1255	2220	4480	3/5	1350
Three-stage FFL	3700	1355	2320	4680	3/5	1150
	4000	1555	2520	4980	3/3	1100
	4000	950	1915	4980	3/3	1100
	4350	1075	2040	5330	3/3	1000
	4500	1125	2090	5480	3/3	900
	4800	1225	2190	5780	3/3	750

自由提升高度(不带挡货架)+428

The truck can work quickly and flexibly in narrow spaces such as lorries and containers.



FE3R E Series Battery Balance Weight Type Forklift						
Identification	1.1	Manufacture(abbreviation)	诺力	诺力		
	1.2	Manufacturer's type designation	FE3R12E	FE3R15E		
	1.3	Drive:electric(battery or mains),diesel,petrol gas,manual)		Electric		
	1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)		Seated		
	1.5	Load capacity/rated load	Q(kg)	1200	1500	
	1.6	Load centre distance	C(mm)		500	
	1.8	Load distance,centre of drive axle to fork	x(mm)	284	310	
	1.9	wheelbase	y(mm)	1130	1214	
	Weights	2.1	Service weight incl. battery(see line 6.5)	kg	1940	2440
2.2		Axle loading ,laden front/rear	kg	2830/310	3540/400	
2.3		Axle loading,unladen front/rear	kg	950/990	1040/1400	
Wheels Chassis	3.1	Type:solid rubber,supereastic,pneumatic,polyurethane		solid rubber		
	3.2	Tyres size,front		4.00-8	413x127	
	3.3	Tyres size,rear		3.50-5	323x100	
	3.5	Wheels,number front/rear(*=driven wheels)		2x/2	2x/2	
	3.6	Track width,front	$b_{10}$ (mm)	800	848	
	3.7	Track width,rear	$b_{11}$ (mm)	186	188	
	Basic Dimensions	4.1	Mast/fork carriage tilt forward/backward	$\alpha/\beta(^{\circ})$	3/5	3/5
4.2		lowered mast height	$h_1$ (mm)	1975	1970	
4.3		Free lift	$h_2$ (mm)		95	
4.4		Lift height	$h_3$ (mm)		3000	
4.5		Extended mast height	$h_4$ (mm)		3865	
4.7		Overhead load guardheight	$h_6$ (mm)		1975	
4.8		Seat height/standing height	$h_7$ (mm)		980	
4.12		Coupling height	$h_{10}$ (mm)		540	
4.19		Overall length	$l_1$ (mm)	2570	2665	
4.20		Length to face of forks	$l_2$ (mm)	1650	1745	
4.21		Overall width	$b_1$ (mm)	922	1000	
4.22		Fork dimensions	s/e/l(mm)	35 / 100/ 920		
4.24		Fork carriage width	$b_3$ (mm)		825	
4.31		Ground clearance ,laden,under mast	$m_1$ (mm)		80	
4.32		Ground clearance,centre of wheelbase	$m_2$ (mm)		90	
4.33	Aisle width for pallets 1000x1200 crossways	Ast(mm)	2974	2986		
4.34	Aisle width for pallets 800x1200 lengthways	Ast(mm)	3174	3104		
4.35	Turning radius	Wa(mm)	1490	1590		
Performance Data	5.1	Travel speed ,laden/unladen	km/h	9/10	8/9	
	5.2	Lift speed ,laden/unladen	m/s	0.15/0.22	0.20/0.30	
	5.3	lowering speed ,laden/unladen	m/s	0.25/0.27	0.4/0.5	
	5.5	Drawbar pull ,laden/unladen $S_2$ 60 min	N	1800/2300	2100/2600	
	5.6	Max.drawbar pull ,laden/unladen $S_2$ 5 min	N	3420/3640	3700/3940	
	5.7	Max.Gradient performance ,laden/unladen $S_2$ 5 min	%		6/10	
	5.10	Service brake			hydr.	
	E-Motor	6.1	Drive motor rating $S_2$ 60 min	kW	3.9	3.9
		6.2	Lift motor rating at $S_3$ 15%	kW	3	6
		6.3	Battery standard		DIN	
6.4		Battery voltage,nominal capacity $K_3$	V/Ah	48/160(four cell) 48/(165/180/210) (Optional lead-acid)	48/(200/240/280)	
6.5		Battery weight	kg	160/360/400	380/440/500	
	Battery dimensions l/w/h	mm	756/361/640	718/485/631		
Other Details	8.1	Type of drive control		AC		
	8.2	Operating pressure for attachments	MPa	13.5		
	8.3	Oil volume for attachments	l/min	11	14.5	
	8.4	Sound level at driver's ear according to EN 12 053	dB(A)	70		