

# FE2RT18-25

## NOBLELIFT Electric Rough Terrain Forklift



### 3-in-1

Designed for rough terrain application  
Perform like an IC engine forklift  
With Li-ion battery

## COMPARISON OF WORKING COST

Model	Li-ion battery forklift	Lead acid battery forklift	IC forklift
1.5T	Charger: Robinsen 48V/15KW-250A	Charger: SHINENG CZB3-60A/48V	Xinchai 485 engine
	1 hour charging: 15 degrees Charging for 1.7 hours: <b>20.2 degrees</b>	1 hour charging: 2.88 degrees Charging for 10 hours: <b>28.8 degrees</b>	Normal working conditions: Fuel consumption <b>3 liters / hour</b>
	Charge for 1.7 hours: 20.2 * 1.02 conversion rate* 1.15 loss* 1 Electricity cost = <b>23.69 RMB</b>	Charge for 10 hours: 28.8 * 1.2 conversion rate* 1.15 loss* 1 electricity cost = <b>39.74 RMB</b>	Cost per hour: 3 * 5.73 RMB = <b>17.19 RMB</b>
	Full charge cost: 23.69 RMB Working time: 4-6 hours	Full charge cost: 39.74 RMB Working time: 4-6 hours	Cost of working 5 hours per day: 5 * 17.19 = <b>85.95 RMB</b>
	Cost per hour: <b>3.95-5.92 RMB</b>	Cost per hour: <b>6.62-9.94 RMB</b>	Cost per hour: <b>17.19 RMB</b>
<b>Annual cost of 1,000 working hours: between 3950-5920 RMB</b>	<b>Annual cost of 1,000 working hours: between 6620-9940 RMB</b>	<b>Annual cost of 1,000 working hours: 17,190 RMB</b>	
2.5T	Charger: Robinsen 48V/25KW-250A	Charger: SHINENG CZB3-80A/48V	Xinchai 490 engine
	1 hour charging: 25 degrees Charging for 1.2 hours: <b>30 degrees</b>	1 hour charging: 3.84 degrees Charging for 10 hours: <b>38.4 degrees</b>	Normal working conditions: Fuel consumption <b>4.5 liters / hour</b>
	Charge for 1.7 hours: 30 * 1.02 conversion rate* 1.15 loss* 1 Electricity cost = <b>35.19 RMB</b>	Charge for 10 hours: 38.4 * 1.2 conversion rate* 1.15 loss* 1 electricity cost = <b>52.99 RMB</b>	Cost per hour: 4.5 * 5.73 RMB = <b>25.79 RMB</b>
	Full charge cost: 35.19 RMB Working time: 4-6 hours	Full charge cost: 52.99 RMB Working time: 4-6 hours	Cost of working 5 hours per day: 5 * 25.79 = <b>128.95 RMB</b>
	Cost per hour: <b>5.87-8.80 RMB</b>	Cost per hour: <b>8.83-13.25 RMB</b>	Cost per hour: <b>25.79 RMB</b>
<b>Annual cost of 1,000 working hours: between 5870-8800 RMB</b>	<b>Annual cost of 1,000 working hours: between 8830-13250 RMB</b>	<b>Annual cost of 1,000 working hours: 25,790 RMB</b>	



Electric Forklift



### GRADEABILITY

Up to **30%**, performance between diesel engine powered 2WD and 4WD, suitable for most of middle-low rough terrain application.

### LIFTING SPEED

**380** mm/S, perform like a IC engine powered forklift.

### DRIVE SPEED

**20** km/h, the fastest electric forklift in market.

### LOWERED HEIGHT

**2135** mm, allows container and door ways operation.

### CHARGING TIME

Less than **2** hours, quick charge, high efficiency.

### GROUND CLEARANCE

**270** mm, high ground clearance for rough terrain application.

### OVERALL WIDTH

**1450** mm, designed for Orchard constrains.

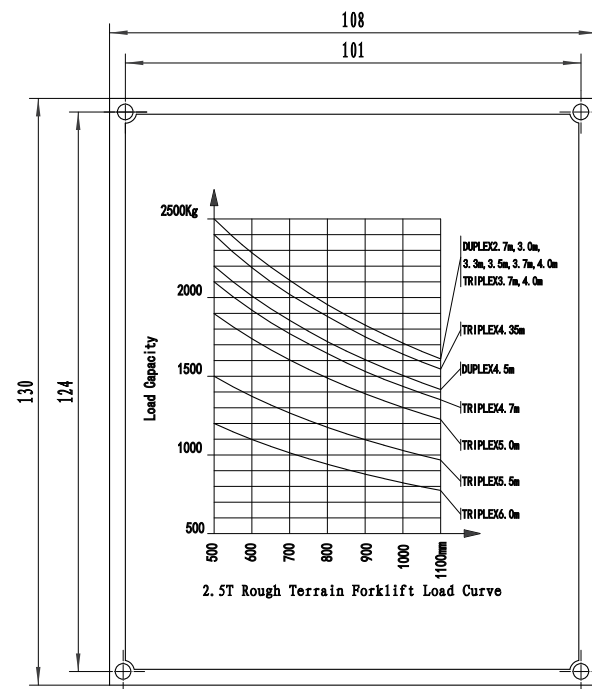
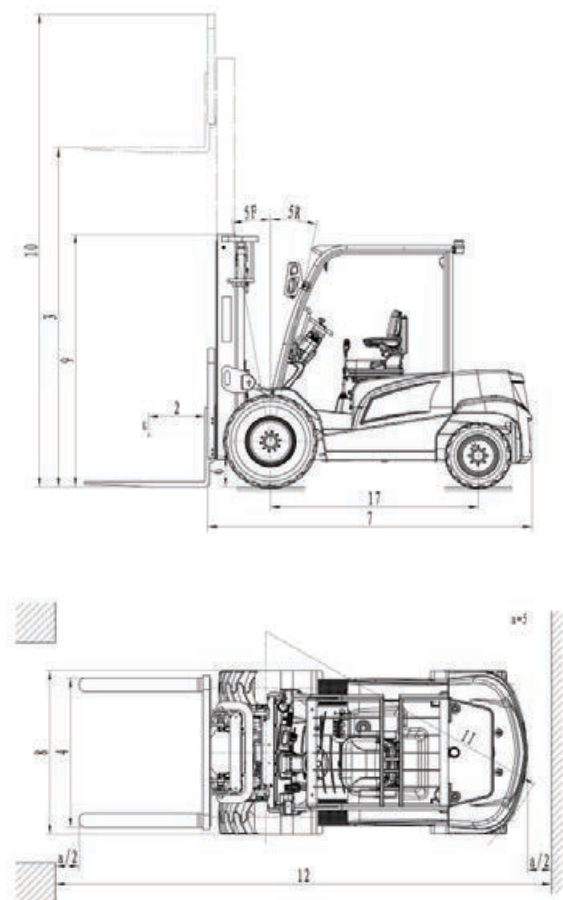
### TURNING RADIUS

**2730** mm, independent drive wheel, great maneuverability.



# CONFIGURATIONS

Dimension	Overall width	1450mm	Designed for Orchard constrains
	Overall height	2150mm	Allows container and door ways operation
Productivity	Ground clearance	270mm	High ground clearance for rough terrain application
	Turning radius	2730mm	Independent drive wheel, great maneuverability
	Gradeability	30% with load	Meet with the requirements of mos
	Drive speed	20km/hour	The fastest electric forklift in Market
	Lifting speed	400mm/Sec	Performlke a IC engine powered forkit
Green Power LI-ION	Working hours	4-6hours	Integrated BMS continually monitors energy management, ensure reliability
	Charging time	Less than 2 hours	Quick charge, high elciency
	Emission	no limitation in EU&US	Environmental friendly
Safety	Water proof		IP54 Water-proof standard
	Brakes	Wet-disc brake	Higher stability and reliability than traditional drum brakes
	Ops system		Ops system disable traction and operation device when driver leave seat
Ergonomic	Noise	73Db	Operator hearing protection
	Vibration		Reduce the fatigue strength of the driver
	Operation space		Operating space more than 40% larger than conventional electric forklift
TOC total cost of ownership	Energy saving	10KWH/hour	60-70% operation cost lower than diesel powered engine
	Maintenance cost		Maintenance free no-brush AC motor, low service cost



# FORKLIFT SPECIFICATION

RT Series 1.8T & 2.5T								
General								
Model		FE2RT18-Li	FE2RT18-Pb	FE2RT25-Li	FE2RT25-Pb			
1	Power Type	Li-ion battery	Lead-acid battery	Li-ion battery	Lead-acid battery			
2	Load centre	mm	500	500	500	500		
Characteristic & Dimension								
3	Lift height	mm	3000	3000	3000	3000		
4	Fork regulating range	Min./Max.	mm	200-1000	200-1000	200-1000		
5	Mast tilt angle	F/R	Deg	10/12	10/12	10/12		
6	Min. ground clearance	mm	270	270	270	270		
7	Overall dimensions	Length to face of fork (without fork)	mm	2850	2850	2871	2871	
8		Overall width	mm	1450	1450	1450	1450	
9		Mast lowered height	mm	2150	2150	2230	2230	
10	Mast extend height (with backrest)	mm	4145	4145	4170	4170		
11	Turning radius	mm	2730	2730	2730	2730		
12	Min. right angle stacking aisle width	a=1000, b=1200	mm	4800	4800	4860	4860	
13		a=1200, b=800	mm	4400	4400	4460	4460	
Performance								
14	Lifting (Laden)	mm/s	380	380	350	350		
15	Lowering (Laden)	mm/s	450	450	450	450		
16	Max. Gradeability (Laden)	%	30	30	25	25		
Tyre								
17	Wheelbase	mm	1840	1840	1840	1840		
Weight								
18	Self weight	Kg	3640	3900	4480	4480		
19-22	Weight Distribution	Laden	Front axle	Kg	4720	4850	6100	6100
			Rear axle	Kg	720	850	880	880
		Unladen	Front axle	Kg	1440	1600	1800	1800
			Rear axle	Kg	2200	2300	2680	2680
Power & Transmission								
23	Battery	Voltage/Capacity	V/Ah	80/220	80/360	80/320	80/420	
24	Motor	Manufacture		ZAPI	ZAPI	ZAPI	ZAPI	
25	Transmission	Manufacture		PMP	PMP	PMP	PMP	
26	Operating pressure		Mpa	14.5	14.5	17.5	17.5	

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