

LONKING



1.6-2t

**N Series Three Wheel
Counterbalance Electric Forklift Truck**

- Advanced AC dual drive motor, which can produce strong traction and power.
- Ultra-small turning radius, improve passability and space utilization.
- Regenerative braking function, prolong effective using time of battery.
- Intelligent LCD, can display the fault code, improve the maintenance efficiency.
- Powerful AC pump motor provides greater torque, making lifting and dropping of forks more smooth.
- Anti-skid function of ramp enables machine to slide smoothly and automatically on ramp.



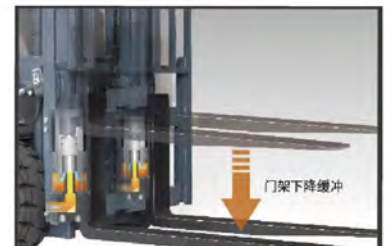
Product details and advantages



High-power drive motor provides strong power; dual motors drive the front wheels independently.



Using electromagnetic parking brake, it can realize automatic parking function on slopes and flat areas.



The lifting system is equipped with a descending buffer device to reduce the impact and vibration of the mast.



Use advanced power display meter, timing meter and fault self-diagnosis meter to accurately display under harsh working conditions.



Wide field of view mast design, battery sunken design, low center, good stability.



It can be rotated forward and reverse, with small turning radius and good maneuverability.

Character						
1.01	Manufacturer			LONKING		
1.02	Model			LG16BE3	LG18BE3	LG20BE3
1.03	Power type			Electrical (AC)		
1.04	Rated capacity	Q	kg	1600	1800	2000
1.05	Load center	J	mm	500	500	500
Dimensions						
2.01	Max. height (with backrest)	H2	mm	4030	4030	4030
2.02	STD Max lifting height	H	mm	3000	3000	3000
2.03	Overhead guard height	H4	mm	2044	2044	2044
2.04	Overall length (with fork)	L	mm	2875	2875	2983
2.05	Wheelbase	L1	mm	1400	1400	1508
2.06	Front overhang	L2	mm	365	365	365
2.07	Rear overhang	L3	mm	190	190	190
2.08	Min ground clearance (Chassis/Mast)	m1/m2	mm	105/85	105/85	100/85
2.09	Overall width (outside)	W1	mm	1060	1060	1120
2.10	Fork adjustment range		mm	200-960	200-960	200-960
2.11	Fork size(STD)		mm	920×100×35		
2.12	Front wheel tread	S	mm	910	910	920
2.13	Rear wheel tread	P	mm	175	175	175
2.14	Min turning radius(outside)	r	mm	1590	1590	1698
2.15	Min aisle width for pallet 1000x1200,crossways	Ast	mm	3280	3280	3388
2.16	Min aisle width for pallet 800x1200.lengthways	Ast	mm	3400	3400	3508
Tyres						
3.01	Capital W (F/R, X=Driven wheels)			X=2/1		
3.02	Tyres type (F/R)			Solid		
3.03	Tyres size,front			18×7-8	18×7-8	200/50-10
3.04	Tyres size,rear			15×4.5-8	15×4.5-8	15×4.5-8
Performance and other details						
4.01	Max. travelling speed,loaded/unloaded		km/h	16/16	16/16	16/16
4.02	Lifting speed, loaded/unloaded		mm/s	330/440	300/440	300/440
4.03	Lowering speed,loaded/unloaded		mm/s	≤600/≥300		
4.04	MAX. gradeability,loaded/unloaded		%	20/20	20/20	20/20
4.05	Service weight(with oil & water)		kg	2900	3290	3380
4.06	Axle load, F/R(loaded)		kg	4300/620	4570/605	4920/545
4.07	Axle load, F/R(unloaded)		kg	1600/1600	1600/1710	1710/1690
4.08	Drive motor		kw	5.4×2	5.4×2	5.4×2
4.09	Lift motor		kw	14	14	14
4.10	Controller			inmotion	inmotion	inmotion
4.11	Lead-acid battery(voltage/capacity)		V/Ah	80/250	80/250	80/250
	Lithium battery(voltage/capacity)		V/Ah	80/205	80/205	80/205

Mast type	Mast model	H2 Max lifting height (mm)	Load capacity (J=500mm) (kg)			H1 Lowered Mast Height(mm)	H3 Free lifting Height (mm)	Mast tilting angle (°)α/β
			16BE3	18BE3	20BE3			
2 Stage Standard Mast	M200	2000	1600	1750	2000	1510	85	5/7
	M250	2500	1600	1750	2000	1760	85	5/7
	M270	2700	1600	1750	2000	1860	85	5/7
	M300	3000	1600	1750	2000	2010	85	5/7
	M330	3300	1600	1750	2000	2160	85	5/7
	M350	3500	1600	1750	2000	2260	85	5/7
	M370	3700	1600	1750	2000	2360	85	5/7
	M400	4000	1600	1750	1950	2560	85	3/5
	M425	4250	1600	1750	1900	2685	85	3/5
	M450	4500	1500	1700	1850	2810	85	3/5
	M475	4750	1400	1650	1750	2935	85	3/5
	M500	5000	1400	1600	1700	3060	85	3/5
	M550	5500	1200	1400	1400	3360	85	3/3
	M600	6000	900	1000	1100	3610	85	3/3

2 Stage Free Mast	ZM200	2000	1600	1750	2000	1510	875	5/7
	ZM250	2500	1600	1750	2000	1760	1125	5/7
	ZM275	2750	1600	1750	2000	1885	1250	5/7
	ZM300	3000	1600	1750	2000	2010	1375	5/7
	ZM330	3300	1600	1750	2000	2160	1525	5/7
	ZM350	3500	1600	1750	2000	2260	1625	5/7
	ZM375	3750	1600	1750	2000	2385	1750	5/7
	ZM400	4000	1600	1750	2000	2560	1925	3/5
	ZM450	4500	1600	1750	1950	2810	2175	3/5

Note: The free lifting height with backrest minus 368mm.

3 Stage Free Mast	ZSM360	3600	1600	1750	2000	1790	1145	3/5
	ZSM400	4000	1600	1750	2000	1828	1283	3/5
	ZSM435	4350	1500	1700	1900	2040	1395	3/5
	ZSM450	4500	1500	1700	1850	2090	1445	3/5
	ZSM470	4700	1450	1650	1750	2162	1515	3/5
	ZSM480	4800	1450	1650	1750	2190	1545	3/5
	ZSM500	5000	1300	1600	1700	2290	1645	3/5
	ZSM540	5400	1150	1250	1400	2415	1770	3/3
	ZSM600	6000	900	1000	1100	2640	1995	3/3
	ZSM650	6500	800	900	1000	2840	2195	3/3

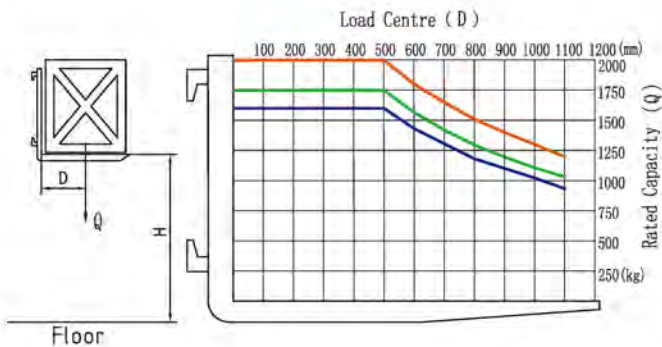
Note: The free lifting height with backrest minus 358mm.

Note: Load capacity is reduced 150kg with optional side shifter for 1.6-2t forklift.

Configuration	Multi Function Display	Driving/lifting/steering Computer Controlled	Pedal Rubber	Lead Acid & Lithium Battery	Emergency Stop Switch
	Safety seat	Full-hydraulic Power Steering	Standard Forks	Adjustable Steering Column	Lift, Tilt, Levers
	Two-piece Multiplex Valve	Driving OPS	Wide view mast	Gear Pump with Low Noise	Energy Efficient Dynamic Signal
	Load Sensing Hydraulic System	Roof Weather Canopy	Charging Indicator	Electric Horn	Reversing Buzzer
	Traction Pin	Tool Box	Solid Tyres	Full Set of LED Lights	
Optional	Rear Working Light	Warning Light	Suspension Seat	Non Marking Tyres	2 Stage Full Free Lift Mast
	3 Stage Full Free Lift Mast	Lifting Potentiometer	Rotating Buzzer Warning Light	Battery Charger	Valve and piping Reserving
	Three sides(left,right and rear)red/blue bar light	Rear Blue Light	Full Set OPS(Including drive and lift)	Tailored backrest	Widen Fork Carriage
	Fork Extensions	Tilt cylinder protection	Steering cylinder protection	Custom Colours	Multiple Hydraulic Attachments
	Transparent Roof Cover				

Load Curve

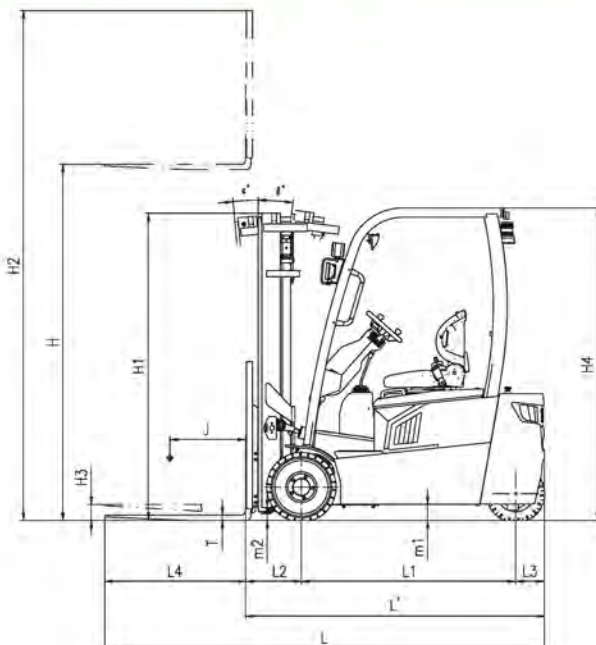
Load Curve



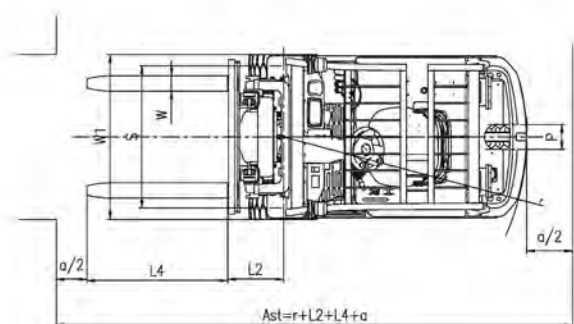
- 2.0t
- 1.8t
- 1.6t

Note: The vertical axis represents the rated lifting weight, and the horizontal axis represents the load center distance. The load center is calculated from the front of the fork, and the base point of the standard load refers to the center position of a cube with a load side length of 1000 mm. When the mast is tilted forward, non-standard forks are used, or loads exceeding the normal width are loaded, the load capacity will be reduced. Through the load curve chart, the carrying capacity of various load centers can be understood in time.

Structure Diagram



Ast : Right Angle Stacking Aisle Width
a : Clearance





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