



Zhejiang Maxlion Intelligent Equipment Co., Ltd.
(Hangzhou Maxlion Forklift Imp & Exp Co., Ltd.)

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NEW LI-ION BATTERY FORKLIFT 1.5-3.8T

X SERIES



ZHEJIANG MAXLION

ZHEJIANG MAXLION INTELLIGENT EQUIPMENT CO., LTD.
was established on April 7, 2024.

The company places great emphasis on new product development and innovation. While excelling in traditional forklifts, it is continuously exploring and researching specialized products for niche market sectors. With a market-oriented approach and a focus on creating customer value, we are committed to providing customers with high-quality products, reasonable prices, and excellent services. We sincerely welcome both new and old customers, as well as overseas industry partners, to engage in extensive communication and cooperation to create a bright future together!

- 1.8T-12T**
ICE forklift
- 1.5T-3.8T**
New Li-Ion battery forklift
- 1.8T-3.5T**
Rough terrain forklifts
- 1.5T-3.0T**
Compact tele-trucks
- 3.5T-5.0T**
Side loaders

The brand MAXLION has been successfully registered in many countries, including China, the European Union, the United States, Australia, New Zealand, Turkey, Brazil, and others. In June of 2024, Maxlion Intelligent successfully acquired land in the High-tech Zone of Haining, Zhejiang Province. In July, the construction of the new MAXLION factory officially began, with a total investment of 120 million RMB, covering an area of 20,000 square meters, and an annual designed production capacity of 8,000 units of new energy and special forklifts. The new factory is expected to be completed and officially put into operation in May 2025.

The company's predecessor was Zhejiang Maximal Import & Export Co., Ltd. (ZMIE). Currently, the group has over 80 employees, including 15 engineers, and has obtained a total of 18 national invention patents, utility model patents, and design patents. Over half of the team members have more than 15 years of experience in the material handling equipment industry and have strong capabilities in engineering design, production management, marketing, after-sales service, OEM solutions, and industry resource integration.



⬆
Currently, Maxlion's product range covers 5 major categories, including



SPECIAL TRUCK FORKLIFT



Dive into forklift manufacturing.
Focus on Niche products development.
Devoted to produce value.

Compact Tele-truck
1.5-3T

Diesel Rough terrain
1.8T2.5T3.5T 2WD

3.5-5.0T Multi-directional
Side Loader

Diesel Rough terrain
1.8T2.5T3.5T 4WD

Electric Multi-directional
Side Loader 3.5-5.0T

Electric Tele-truck
1.5-3.0T

IC FORKLIFT



Diesel 1.8-3.8T

LPG&Gasoline 1.8-3.5T

Diesel 5-7T

Diesel 8-10T

PORT MACHINERY



Compact16.0T Diesel Forklift

45T Reach Stacker CRS4532

16.0-18.0 Diesel Forklifts

25.0T Diesel Forklift

12T Diesel

WAREHOUSE EQUIPMENT



Electric Stacker

Double Deep
Reach Truck

Pantograph
Reach Stacker

Order picker

Electric Pallet Truck

ELECTRIC FORKLIFT



X Series
New Li-ion Electric Forklift 1.5-3.8T

X Series
Li-Ion Battery Rough Terrain 1.8T 2.5T 2WD

X Series
Electrification 2.5-3.5T

X Series
3-Wheel Li-ion Electric Forklift 1.5-1.8T

X Series
Reach Truck with
li-ion 1.6-2.0T

X Series NEW LI-ION BATTERY FORKLIFT 1.5-3.8T



Independently crafted by Maxlion, this series leverages extensive expertise in electric and internal combustion forklifts.

MAXLION

Featuring an innovative energy vehicle voltage platform and pioneering structural design, it redefines conventional norms. Its goal is to surpass internal combustion forklifts by enhancing efficiency, power, and reliability while optimizing overall performance, ergonomic design for comfort, Easily Maintenance, outdoor and indoor application to meet customer needs.

MAIN FEATURES

Energy Efficiency

- Utilizes permanent magnet system, saving **15%** energy compared to AC systems.
- "lunch time" fast charging



Ergonomic Design for Comfort

- Provides a raised steering wheel and operating handle.
- Optimal visibility of 3-stage mast.
- Modern suspended brakes.



High Cost-effectiveness

- Implements strict cost control of high-quality EIC system.
- Best battery cost-effective range **76.8V/175-460Ah** covering 90% forklift working conditions.



Out Door and In Door Application

- Employs IC forklift's power.
- Compact electric forklift size with a tight turning radius.



Simple, Solid, Durable

- Simple operation and easy maintenance
- Enhanced durability with die-cast iron side panels and injection-molded instrument cover.
- High quality EIC system
- Quality mature components ensure durable performance



Premium Exterior Design

- Modern design for an appealing appearance.
- LED lights, USB port, Waterproof connectors



Rear hand grip with horn (Standard)

Blue light(Standard)



Waterproof Connectors

Complete vehicle waterproof connectors ensure reliability and safety in various conditions.



SPACE-EFFICIENT CHARGING

No Charging Room Needed: Charge anywhere in the warehouse, saving space and streamlining processes.

OPPORTUNITY CHARGING

Fast charging interface provides an efficient and convenient charging solution without the need for battery replacement

IMPROVED OPERATOR EXPERIENCE

Enhanced Comfort: Smooth acceleration, consistent power, and quieter operation reduce operator fatigue and improve efficiency.

VERSATILITY

All-Weather Use: IPX4-rated for reliable performance in various conditions, both in-door and out-door.
Comparable to ICE Forklifts: Matches performance of traditional ICE forklifts.

PERFORMANCE

Supports Multi-Shift Operations: On-the-go charging during short breaks eliminates the need for battery swapping.

SAFETY

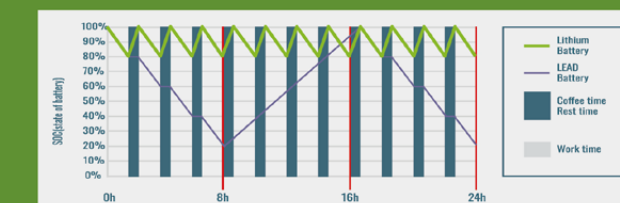
Safer Operations: Stable output, maintenance-free, no acid spills, and no toxic fumes.
Healthier Workplace: Minimized risks ensure a safe environment for employees.

ENVIRONMENTAL BENEFITS

Eco-Friendly: Smaller carbon footprint and zero emissions during operation.
Cleaner Workplace: No diesel fumes or hazardous spills.

HIGH EFFICIENCY

Fast Charging Advantage: Li-ion batteries charge quickly and conveniently. Even a short charge of a few minutes can provide extended runtime, allowing forklifts to return to operation faster and improving productivity.



LONG SERVICE LIFE

Thousands of charge cycles without significant degradation. Even after 4,000 charge and discharge cycles, the battery retains 75% of its health.

What is the suitable working temperature range for our lithium-ion batteries? Are there any precautions?

 Permissible discharge temperature range: **-20°C to 45°C**

 Permissible charging temperature range: **0°C to 45°C**

 Storage temperature range: **-20°C to 45°C**

- First time use of the vehicle, need to charge to 100% before use.
- After turning on the power, make sure that there is no battery system alarm message on the instrument panel or no abnormal buzzer warning.
- Before using the vehicle again, check the remaining battery power, and it is recommended to use it when the SoC is between 50% and 100%.
- When SoC is below 20%, it is not recommended for further use, please recharge as soon as possible.

What is the warranty for our lithium-ion batteries?

 We are committed to providing the most efficient, prompt, and high-quality after-sales service for our customers.

Battery cells: **5 years or 10,000 hours**
BMS (Battery Management System): **5 years**

How are the charging time and usage time of our lithium-ion forklifts calculated?

Example: Li-ion Battery 76.8V/350Ah with Battery Charger 80V/150A

1. Battery energy (kWh) = 76.8V × 350Ah × 90% ÷ 1000 = 24.2 kWh

(The remaining 10% is reserved as safety energy in the battery to prevent over-discharge.)

2. Charging time (h) = 350Ah × 90% ÷ 150A = 2.1 hours

What is the charging time and usage time calculation of forklift lithium battery?

1. Available power of lithium battery (kWh) = rated voltage × rated power × 90%

To avoid over-discharge damaging the battery, the forklift is equipped with low power protection (less than 10%)

2. Charging time (h) = rated capacity of lithium battery (Ah) × 90% : charger output current (A)

3. The power consumed for charging (kWh) : the available power of the lithium battery : 93%

the charging efficiency of the charger is calculated as 93%

4. Usage time (h) = available power of lithium battery + energy consumption data.

For specific energy consumption values, please refer to the technical table on the sharing platform.

Powerful Performance, High Efficiency

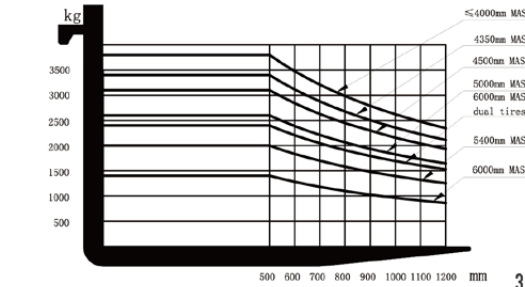
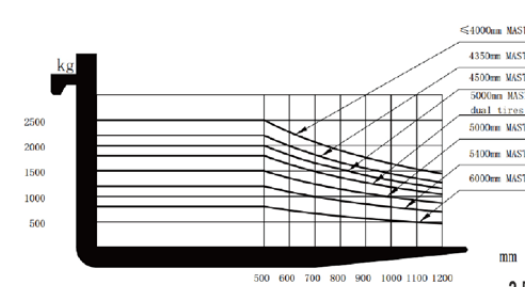
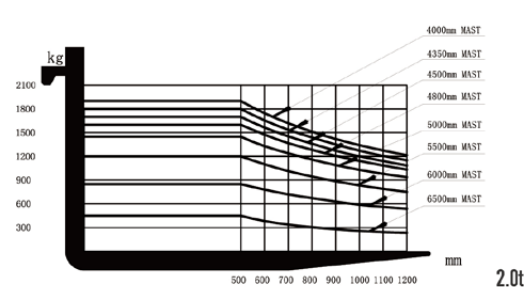
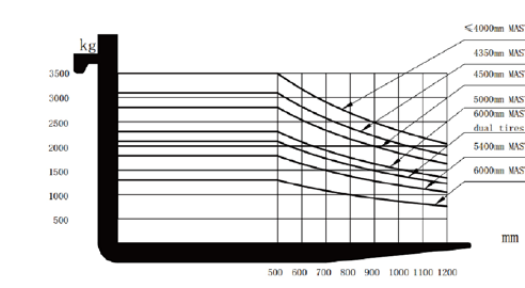
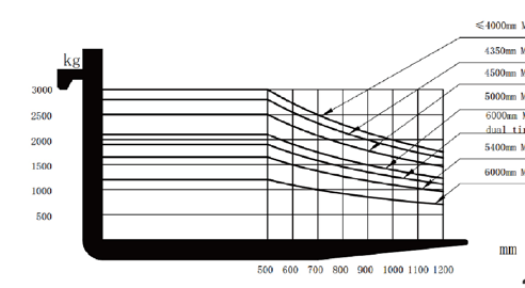
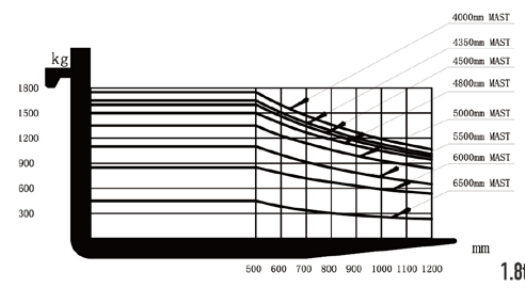
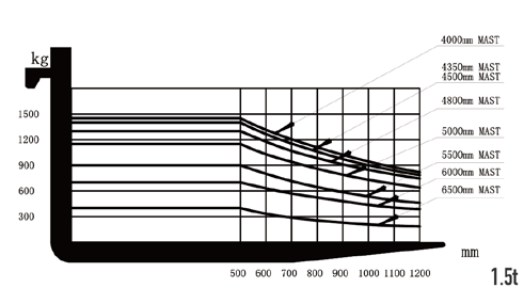
Smart and Safe, Ease In All Aspects



MAXLION

MAXLION ELECTRICAL FORKLIFT SPECIFICATIONS

General	1	Model				FB15-EH	FB18-EH	FB20-EH	FB25-EH	FB30-EH	FB35-EH	FB38-EH		
	2	Rated capacity			kg	1500	1800	2000	2500	3000	3500	3800		
	3	Load center			mm	500	500	500	500	500	500	500		
Characteristic & Dimension	4	Lift height			mm	3000	3000	3000	3000	3000	3000	3000		
	5	Mast tilt angle	F/R	Deg	6/10	6/10	6/10	6/12	6/12	6/12	6/12	6/12		
	6	Fork size	L×W×T		mm	920×100×35	920×100×35	920×100×40	1070×122×40	1070×125×45	1070×130×50	1070×130×50		
	7		Regulating range		mm	200-920	200-920	200-920	250-1000	250-1060	260-1060	260-1060		
	8	Front overhang		mm	405	405	410	476	490	510	510			
	9	Rear overhang			mm	370	370	399	380	410	410	440		
	10	Min ground clearance (Bottom of mast)			mm	135	135	135	125	140	140	140		
	11	Overall dimensions	Length to face of fork(without forks)		mm	2195	2195	2224	2485	2590	2607	2639		
	12		Overall width		mm	1126	1126	1126	1150	1210	1210	1210		
	13		Overall height	Overhead guard height	mm	2110	2110	2110	2180	2205	2205	2205		
	14			Mast	mm	2020	2020	2020	2010	2075	2150	2150		
	15			Mast extended height	mm	3860	3860	3990	4182	4177	4177			
	16	Min turning radius			mm	1924	1924	1952	2165	2270	2270	2300		
Performance	17	Speed		Travel (Unladen/Laden)	km/h	16/15	16/15	16/15	18/17	18/17	18/17	18/16		
	18			Lifting (Unladen/Laden)	mm/sec	460/380	460/350	460/330	460/350	460/350	400/320	400/300		
	19			Lowering (Laden)	mm/sec	400	400	400	400	400	450	450		
	20	Max drawbar pull (Unladen/Laden)			KN	10/11	10/11	10/11	15/17	15/17	15/17	15/17		
	21	Max gradeability (Unladen/Laden)			%	25/18	25/18	25/16	25/18	25/18	25/17	23/15		
	22	Permanent Motor	Drive motor power		kw	8.4	8.4	8.4	11.5	15	15	15		
	23		Drive motor torque		N.m	100	100	100	125	160	160	160		
	24		Pump motor power		kw	16.5	16.5	16.5	16.5	22.6	22.6	22.6		
	25		Pump motor torque		N.m	75	75	75	75	110	110	110		
	26	Lithium Battery	Recommended		V/Ah	76.8/150	76.8/150	76.8/205	80/205	76.8/280	76.8/280	76.8/280		
	27		Option		V/Ah	76.8/205-350 80/205-460								
	28	Tyre	Front		/	6.50-10-10PR			6.50-10-12PR		7.00-12-12PR		28*9-15-14PR	
	29		Rear		/	16*6-8-10PR			18*7-8-14PR		18*7-8-14PR		18*7-8-16PR	18*7-8
	30	Tread	Front		mm	958	958	958	970	1000	1000	1000		
	31		Rear		mm	918	918	918	954	954	954	954		
	32	Wheelbase			mm	1420	1420	1420	1630	1700	1700	1700		
Weight	33	Self weight			kg	2750	2950	3100	3800	4320	4680	4880		
	34	Weight distribution	Laden	Front	kg	3780	4230	4540	5570	6550	7330	7750		
	Rear			kg	470	520	560	730	770	850	900			
	35		Unladen	Front	kg	1240	1250	1260	1550	1730	1780	1810		
	36			Rear	kg	1510	1700	1840	2250	2590	2900	3070		



INTERNAL COMBUSTION FORKLIFT MAST SPECIFICATIONS

Type	Model	Max fork height	Mast height				Free lift		Front overhang	Tilt range		Capacity		
			Lowered	extended height	extended height	without backrest	with backrest	FWD		BWD	Load capacity at 500mm			
				with backrest	without backrest						1.5t	1.8t	2t	
		mm	mm	mm	mm	mm	mm		Deg	Deg	kg	kg	kg	
Wide view 2 stage mast	M330	3300	2150	4185	3830	135	135	405	6	10	1500	1800	2000	
	M350	3500	2250	4385	4030	135	135		6	10	1500	1800	2000	
	M400	4000	2550	4885	4530	135	135		6	6	1450	1750	1950	
	M450	4500	2800	5385	5030	135	135		6	6	1400	1500	1700	
	M500	5000	3050	5885	5530	135	135		6	6	1150	1200	1450	
Full free 3 stage mast	TFM435	4350	2050	5245	4895	1485	1185	440	6	6	1400	1650	1800	
	TFM450	4500	2100	5395	5045	1535	1235		6	6	1400	1600	1700	
	TFM480	4800	2200	5695	5345	1635	1335		6	6	1300	1500	1600	
	TFM500	5000	2300	5895	5545	1725	1425		6	6	1150	1350	1450	
	TFM550	5500	2470	6395	6045	1885	1585		3	6	900	1100	1200	
	TFM600	6000	2650	6895	6545	2075	1775		3	6	700	850	850	
	TFM650	6500	2815	7395	7045	2145	1945		3	6	400	450	450	

Type	Model	Max fork height	Lowered	Overall height		Free lift		Front overhang	Tilt range		Capacity
				2.5t	With backrest	Without backrest	With backrest		FWD	BWD	
				mm	mm	mm	mm	mm			Deg
Wide view 2 stage mast	M330	3300	2160	3875	4390	160	160	476	6	12	2500
	M350	3500	2260	4075	4590	160	160	476	6	12	2500
	M400	4000	2560	4575	5090	160	160	476	6	6	2500
	M450	4500	2810	5075	5590	160	160	476	6	6	2100
	M500	5000	3060	5575	6090	160	160	476	6	6	1600
	M600	6000	3610	6575	7090	160	160	476	3	6	900
stage mast Full free 3	TFM435	4350	2060	4953	5440	1457	970	495	6	6	2200
	TFM450	4500	2110	5103	5590	1507	1020	495	6	6	2000
	TFM480	4800	2210	5403	5890	1607	1120	495	6	6	1700
	TFM500	5000	2310	5603	6090	1707	1220	495	6	6	1500
	TFM600	6000	2660	6603	7090	2057	1570	495	3	6	800
	TFM650	6500	2875	7103	7590	2272	1785	495	3	6	500

Type	Model	Max fork height	Lowered		Overall height				Free lift				Front overhang		Tilt range		Capacity	
					Extended		With backrest		Without backrest		With backrest						Load capacity at 500mm	
			3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	FWD	BWD	3t	3.5t
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg	
Wide view 2 stage mast	M330	3300	2225	2300	3938	4008	4482	4477	165	170	165	170	490	510	6	12	3000	3500
	M350	3500	2325	2400	4138	4208	4682	4677	165	170	165	170	490	510	6	12	3000	3500
	M400	4000	2625	2700	4638	4708	5182	5177	165	170	165	170	490	510	6	6	3000	3300
	M450	4500	2875	2950	5138	5208	5682	5677	165	170	165	170	490	510	6	6	2600	2900
	M500	5000	3125	3200	5638	5708	6182	6177	165	170	165	170	490	510	6	6	2100	2400
	M600	6000	3675	3750	6638	6708	7182	7177	165	170	165	170	490	510	3	6	1300	1400
Full free 3 stage mast	TFM435	4350	2075	2150	5068	5138	5532	5527	1357	1362	893	973	500	510	6	6	2800	3100
	TFM450	4500	2125	2200	5218	5288	5682	5677	1407	1412	943	1023	500	510	6	6	2500	2800
	TFM480	4800	2225	2300	5518	5588	5982	5977	1507	1512	1043	1123	500	510	6	6	2250	2500
	TFM500	5000	2325	2400	5718	5788	6182	6177	1607	1612	1143	1223	500	510	6	6	2100	2300
	TFM600	6000	2675	2750	6718	6788	7182	7177	1957	1962	1493	1573	500	510	3	6	1200	1300
	TFM650	6500	2892	2965	7218	7288	7682	7677	2174	2177	1710	1788	500	510	3	6	700	800

Type	Model	Max fork height	Overall height			Free lift		Front overhang	Tilt range		Capacity Load capacity at 500mm Single tyre 3.8t kg
			Lowered	Without backrest	With backrest	Without backrest	With backrest		FWD	BWD	
			3.8t mm	3.8t mm	3.8t mm	3.8t mm	3.8t mm				
Wide view 2 stage mast	M330	3300	2300	4008	4477	170	170	510	6	12	3800
	M350	3500	2400	4208	4677	170	170	510	6	12	3800
	M400	4000	2700	4708	5177	170	170	510	6	6	3600
	M450	4500	2950	5208	5677	170	170	510	6	6	3200
	M500	5000	3200	5708	6177	170	170	510	6	6	2700
	M600	6000	3750	6708	7177	170	170	510	3	6	1500
Full free 3 stage mast	TFM435	4350	2150	5138	5527	1362	973	510	6	6	3400
	TFM450	4500	2200	5288	5677	1412	1023	510	6	6	3100
	TFM480	4800	2300	5588	5977	1512	1123	510	6	6	2800
	TFM500	5000	2400	5788	6177	1612	1223	510	6	6	2600
	TFM600	6000	2750	6788	7177	1962	1573	510	3	6	1400
	TFM650	6500	2965	7288	7677	2177	1788	510	3	6	800

