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CE CERTIFICATE



ISO 14001:2004



ISO 9001:2000

M series Electric Forklift Truck



- 3-wheel Electric Forklift Capacity 1.6-2T
- Rear Drive 3-wheel Electric Forklift Capacity 1.6T
- Reach Truck Capacity 1.5-2T

maximal

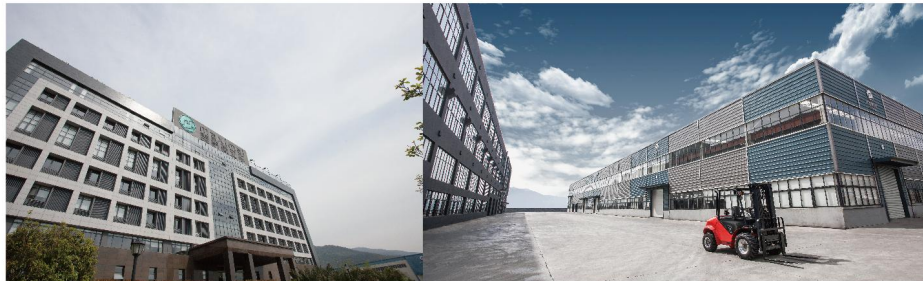
MAXIMAL FAMILY



We work for maximal



Maximal Company Introduction



Established in Feb. 2006, Zhejiang Maximal Forklift Co., Ltd, is located in Lushan Industry Area with convenient transportation. Maximal specializes in material handling equipment design and manufacture.

Maximal Company total floor area is 133,334㎡, investment RMB420 million, factory designed production capacity is 30000 units per year.

Currently employs 500 staff, with more than 230 professional and technical personnel, more than 70 Technical R&D personnel. Maximal gains for 7 items of national invention patents, more than 70 items of utility model and appearance patents.

Maximal owns advanced parts processing center, robot welding equipment, parts automatic hoist conveyor line, coating line, assembly line, forklifts performance test line, parts test-bed and ERP information management system.

Current products consist of:

M series 1.5-3.2T/3000-64,000LB capacity diesel and 1.5T/2000-10,000LB capacity gasoline/LPG/CNG forklifts.
M series 5T/10,000LB capacity 4-wheel electric forklifts.
M series 1.6-2T/3200-4000LB capacity 3-wheel electric forklifts.
M series 1.5-2T/3000-4000LB capacity stand or sit drive electric reach forklifts.
M series 1.3-1.5T/2600-3000LB capacity electric narrow aisle trucks.
M series 2-3T/4000-6000LB capacity cushion tyre forklifts.
M series 1.3-3T/2600-6000LB capacity Omni-Directional electric forklifts.
M series 1.5-3.5T/3000-7000LB capacity compact 4WD rough terrain

forklifts.
Maximal current product range covers 4 series, include 1.5-mini12T industrial forklift, 1.8-5.0T rough terrain forklift, 13.5-32.0T heavy duty forklift & Port machinery and warehouse equipment.

Maximal forklift receive strong public recognition for their modern and striking appearance, high production quality, safety standard and low cost of operation.

At present, Maximal products sales have covered all provinces in domestic market, exported to over 100 countries and areas.

Maximal to "technology innovation, promoting products structure, improving product quality and service" for the purpose, take internationalization, professionalization and green environmental protection as standards, to build Maximal into the most respectable forklift brand.

forklifts.
M series 2.5-3.5T/5000-7000LB capacity 4WD rough terrain forklifts.
M series 1.8-3.5T/3600-7000LB capacity 2WD rough terrain forklifts.
M series 4-5T/8000-10,000LB capacity 2WD rough terrain forklifts.
A series 2-3.5T/4000-7000LB capacity diesel forklifts.
A series 1.5-3.5T/3000-7000LB capacity 4-wheel electric forklifts.
9T/18,000LB capacity empty container handler.
45T/90,000LB capacity reach stacker.
1.6T/3200LB capacity Rear drive 3-wheel electric forklifts.
2-2.5T/4000-5000LB capacity High performance 4-wheel electric forklifts.

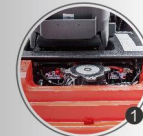
3-wheel electric forklift 1.6-2t

Counterbalanced 3-wheel Battery Forklift Truck is a series of products developed and manufactured to satisfy the market demands. This three wheel type design is the perfect machine for dock operations loading & unloading trucks & trailers. The compact and streamlined body can maneuver in close spaces and narrow aisle applications eliminating the need for more expensive reach machines.



Rear drive 3-wheel electric forklift 1.6t

Key Elements



ZAPI ACE2 Controller horizontally located in the counter balance weight.



Rear drive with one pc of driving motor.



Battery capacity 48V425AH.



One mini rear steering wheel makes the turning radius smaller.



High Performance

● Cost-effective:

equipped with 48V battery, long working hours, powerful performance.

● Working Flexibility:

Smaller turning radius 1544mm makes it much more flexible working in the narrow channels and crowded room.

● Stable Performance:

operating pressure is 14.5Mpa, hydraulic system is much stable.

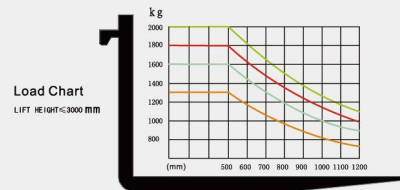
● High Interchangeability:

High interchangeability with Maximal front drive electric forklift, such as mast, hand brake, steering wheel, front wheel and so on.



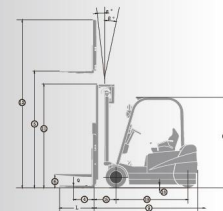
M SERIES 1.6-2.0t 3-wheel electric forklift

Specification	1	Model		FB16S-MJZ	FB18S-MJZ	FB20S-MJZ
Specification	2	Rated capacity	kg	1600	1800	2000
	3	Load centre	mm		500	
	4	Lifting height	mm		3000	
	5	Free lifting height	mm		0	
	6	Fork size	L×W×T	35×100×920		
Dimensions	7	Tilting angle	F/R (α°/β°)	Deg	6.5°/6.5°	
	8	Overall dimensions	Length (to forklift)	mm	1979	2094
	9		Width	mm	1070	1140
	10		Height when mast lowered	mm	1975	1975
	11		Height when mast extended	mm	4010	4010
	12		Height to safeguard	mm	1971	2011
	13	Turning radius	Min.	mm	1643	1758
	14	Front overhang		mm	371	371
	15	Tread	F/R	mm	924/186	942/186
	16	Ground clearance	Min.	mm	90	90
	17	Wheelbase		mm	1400	1515
	18	Fork spread	Min./Max.	mm	200/890	200/890
	19	Working aisle width with pallet(Ast)	1000×1200 crossways	mm	3340	3445
	20		800×1200 lengthways	mm	3464	3579
Performance	21	Speed	Travel(Laden)	km/h	13	13
	22		Travel(Unladen)	km/h	13	13
	23		Lifting(Laden)	mm/s	290	255
	24		Lifting(Unladen)	mm/s	445	435
	25	Gradeability	Laden	%	15	15
	26		Unladen	%	15	15
	27	Service weight	Include battery box	kg	3080	3430
	28	Tyre	Front×2		18×7-8	200/50-10
Driven	29		Rear×2		15×4-8	15×4-8
	30	Motor	Driven motor×2	kw	4×2	4×2
	31		Pump motor	kw	9.2	11
	32	Battery	Standard(Option)	V/Ah	48/500	48/620
	33	Controller	Type		AC	
	34		Manufacturer		ZAPI	
	35	Operating pressure for attachment		Mpa	14.5	17.5

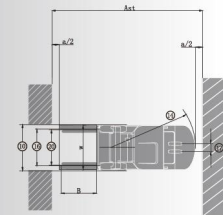


M SERIES 1.6-2.0t 3-wheel electric forklift mast

Type	Model	Max fork height	Overall height			Free lift		Front Overhang	Tilt range		Capacity			
			Lowered	Extended		Without backrest	with backrest		FWD	BWD	Load capacity at 500mm			
				Without backrest	With backrest						Single tire			
											1.3t	1.6t	1.8t	2.0t
		mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg	kg	kg	
2-stage mast	BM250	2500	1725	3010	3480	0	0	371	6.5	6.5	1300	1600	1800	2000
	BM270	2700	1825	3210	3680	0	0	371	6.5	6.5	1300	1600	1800	2000
	BM300	3000	1975	3510	4010	0	0	371	6.5	6.5	1300	1600	1800	2000
	BM330	3300	2125	3810	4280	0	0	371	6.5	6.5	1300	1600	1800	2000
	BM350	3500	2225	4010	4480	0	0	371	6.5	6.5	1300	1600	1800	2000
	BM370	3700	2325	4210	4680	0	0	371	6.5	6.5	1300	1600	1800	2000
	BM400	4000	2525	4510	4980	0	0	371	3.5	5	1300	1600	1800	2000
	BM425	4250	2650	4760	5280	0	0	371	3.5	5	1200	1500	1700	1900
	BM450	4500	2775	5025	5480	0	0	371	3.5	5	1100	1400	1600	1800
	BM550	5500	3325	6025	6480	0	0	371	3.5	5	850	1150	1200	1300
Full free 2-stage mast	BFM250	2500	1725	3010	3465	1200	760	371	6.5	6.5	1300	1600	1800	2000
	BFM270	2700	1825	3210	3665	1300	860	371	6.5	6.5	1300	1600	1800	2000
	BFM300	3000	1975	3510	3965	1450	1010	371	6.5	6.5	1300	1600	1800	2000
	BFM330	3300	2125	3810	4265	1600	1160	371	6.5	6.5	1300	1600	1800	2000
	BFM350	3500	2225	4010	4465	1700	1260	371	6.5	6.5	1300	1600	1800	2000
	BFM370	3700	2325	4210	4665	1800	1360	371	6.5	6.5	1300	1600	1800	2000
	BFM400	4000	2525	4510	4965	2000	1560	371	3.5	5	1300	1600	1800	2000
Full free 3-stage mast	BTFM435	4350	1975	4860	5330	1425	995	371	3.5	5	1200	1500	1700	1900
	BTFM450	4500	2025	5010	5480	1475	1045	371	3.5	5	1100	1400	1600	1800
	BTFM480	4800	2125	5310	5780	1575	1145	371	3.5	5	1000	1300	1500	1650
	BTFM500	5000	2225	5510	5980	1675	1245	371	3.5	5	950	1250	1450	1500
	BTFM550	5500	2390	6010	6480	1840	1410	371	3.5	5	850	1150	1200	1300
	BTFM600	6000	2575	6510	6980	2025	1595	371	3.5	5	750	1050	1100	1200



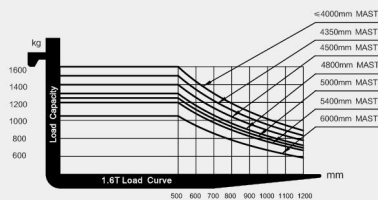
a=200 mm safety clearance
AST=a+①+②+√(a²+③²)





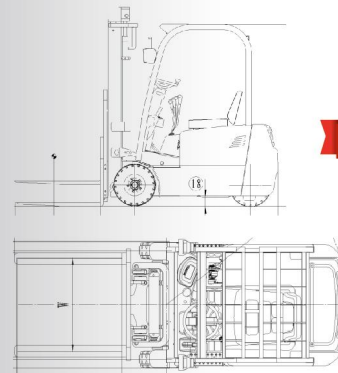
M SERIES 1.6t rear drive 3-wheel electric forklift

Specification	1	Model		FBT07-MJZ	
	2	Power		ZAPI	
	3	Rated capacity		kg	1600
	4	Load centre		mm	500
	5	Lifting height		mm	3000
	6	Free lifting height		mm	
	7	Fork size	L×W×T	mm	920×100×35
	8	Tilting angle	F/R (α°/β°)	Deg	3°/6°
Dimensions	9	Overall dimensions	Length (to forkface)	mm	1919
	10		Width	mm	1078
	11		Height when mast lowered	mm	1975
	12		Height when mast extended	mm	4010
	13		Height to safeguard	mm	1952
	14	Turning radius		mm	1544
	15	Front overhang		mm	376
	16	Tread	F/R	mm	930/0
	17	Ground clearance		mm	85
	18	Wheelbase		mm	1245
	19	Fork spread	Min./Max.	mm	200/890
Performance	20	Working aisle width with pallet(Ast)*	1000×1200 crossways	mm	3245
	21		800×1200 lengthways	mm	3370
	22	Speed	Travel(Laden)	km/h	12
	23		Travel(Unladen)	km/h	13
	24		Lifting(Laden)	mm/s	280
	25		Lifting(Unladen)	mm/s	440
	26	Gradeability	Laden	%	10
	27		Unladen	%	10
	28	Service weight	Include battery box	kg	3240
	29	Tyre	Front×2		18×7-8
	30		Rear×2		18×7-8
Driven	31	Motor	Driven motor×2	kw	4.5
	32		Pump motor	kw	11
	33	Battery	Standard(Optional)	V/Ah	48/400
	34	Operating pressure for attachment		Mpa	14.5



M SERIES 1.6t rear drive 3-wheel electric forklift mast

Type	Model	Max fork height	Overall height			Free lift		Front Overhang	Tilt range		Capacity	
			Lowered	Extended		Without backrest	with backrest		FWD	BWD	Load capacity at 500mm	
				Without backrest	With backrest							Single tire
		mm	mm	mm	mm	mm	mm	Deg	Deg	kg		
2-stage mast	BM250	2500	1725	3010	3480	0	0	371	3	5	1600	
	BM270	2700	1825	3210	3680	0	0	371	3	5	1600	
	BM300	3000	1975	3510	4010	0	0	371	3	5	1600	
	BM330	3300	2125	3810	4280	0	0	371	3	5	1600	
	BM350	3500	2225	4010	4480	0	0	371	3	5	1600	
	BM370	3700	2325	4210	4680	0	0	371	3	5	1600	
	BM400	4000	2525	4510	4980	0	0	371	3	3	1600	
	BM425	4250	2650	4760	5280	0	0	371	3	3	1500	
	BM450	4500	2775	5025	5480	0	0	371	3	3	1400	
	BM500	5000	3025	5525	5980	0	0	371	3	3	1250	
Full free 2-stage mast	BFM250	2500	1725	3010	3465	1230	725	371	3	5	1600	
	BFM270	2700	1825	3210	3665	1330	825	371	3	5	1600	
	BFM300	3000	1975	3510	3965	1480	975	371	3	5	1600	
	BFM330	3300	2125	3810	4265	1630	1125	371	3	5	1600	
	BFM350	3500	2225	4010	4465	1730	1225	371	3	5	1600	
	BFM370	3700	2325	4210	4665	1830	1325	371	3	5	1600	
	BFM400	4000	2525	4510	4965	2030	1525	371	3	3	1600	
	BFM450	4500	2775	5010	5465	2280	1775	371	3	3	1400	
	BFM500	5000	3025	5510	5965	2580	2025	371	3	3	1250	
	BFM550	5500	3325	6010	6465	2830	2325	371	3	3	1150	
Full free 3-stage mast	BFM600	6000	3575	6510	6965	3080	2575	371	3	3	1050	
	BTFM360	3600	1725	4110	4580	1210	705	371	3	3	1600	
	BTFM400	4000	1850	4510	4980	1335	830	371	3	3	1600	
	BTFM435	4350	1975	4860	5330	1425	995	371	3	3	1500	
	BTFM450	4500	2025	5010	5480	1475	1045	371	3	3	1400	
	BTFM480	4800	2125	5310	5780	1575	1145	371	3	3	1300	
	BTFM500	5000	2225	5510	5980	1675	1245	371	3	3	1250	
	BTFM550	5500	2390	6010	6480	1840	1410	371	3	3	1150	
	BTFM600	6000	2575	6510	6980	2025	1595	371	3	3	1050	
	BTFM650	6500	2790	7010	7480	2240	1710	371	3	3	900	





M SERIES 1.5-2.0t reach truck

Performance	1	Model		FBR15-M1JZ	FBR20-M1JZ	FBR15-M3JZE	FBR20-M3JZE
	2	Power		Battery			
	3	Operation		1500	2000	1500	2000
	4	Rated load capacity	Q(kg)	3000			
	5	Rated lift height	h3(mm)	500			
	6	Load centre	C(mm)	3°/5°			
	7	Fork carriage tilt (Forward/Backward)	α/β(deg)	6.5°/6.5°			
	8	Travel speed (Laden/Unladen)	(km/h)	8.8/9.0	8.8/9.0	8.8/9.0	8.8/9.0
	9	Lifting speed(Laden)	(mm/s)	240	220	260	280
	10	Max. gradeability(Laden)	(%)	10			
Dimension and weight	11	Min. turning radius	Wa(mm)	1725	1775	1690	1775
	12	Reach distance	X(mm)	600	645	550	650
	13	Wheelbase	Y(mm)	1470	1520	1425	1500
	14	Service brake		electromagnetic		Hyd	
	15	Overall width	l1(mm)	2340	2350	2385	2400
	16	Main body length	l2(mm)	1270	1280	1315	1330
	17	Overall width	b1(mm)	1205	1216	1255	1266
	18	Height of mast,lowered	h1(mm)	2090		2080	
	19	Free lift height	h2(mm)	330			
	20	Height of mast,extended	h4(mm)	4025			
Driven	21	Height of overhead guard	h5(mm)	2260		2100	
	22	Fork dimensions(T×W×L)	(mm)	35×122×920	40×122×920	35×122×920	40×122×920
	23	Fork regulating range(Min/Max)	(mm)	286/758		286/758	
	24	Min. ground clearance	h6(mm)	80			
	25	Aisle width with pallet(1200×1200)	Ast1(mm)	2910	2920	2945	2960
	26	Aisle width with pallet (1000×1000)	Ast2(mm)	2690	2700	2725	2750
	27	Service weight	(kg)	2670	2725	2850	3000
	28	Drive motor	(Kw)	4.5	4.5	4.5	4.5
	29	Lift motor	(Kw)	11	11	11	11
	30	Battery Voltage/capacity (5h)standard (option)	(V/Ah)	48/420		48/480	
Tyres	31	Tyres		Polyurethane Solid tyre			
	32	Size of front tyre	(mm)	∅ 250×120		∅ 285×108	∅ 343×108
	33	Size of driven tyre	(mm)	∅ 381×130		∅ 343×132	
	34	Size of balancing tyre	(mm)	∅ 178×75		-	
	35	Track width(front)	(mm)	1070		1110	1125
	36	Track width(rear)	(mm)	580		-	
Other	37	Turning system		Hyd			
	38	Speed control system		ZAPI			

