

M SERIES

3-WHEEL ELECTRIC FORKLIFT 1.6 TON



M Series Forklift



maximal



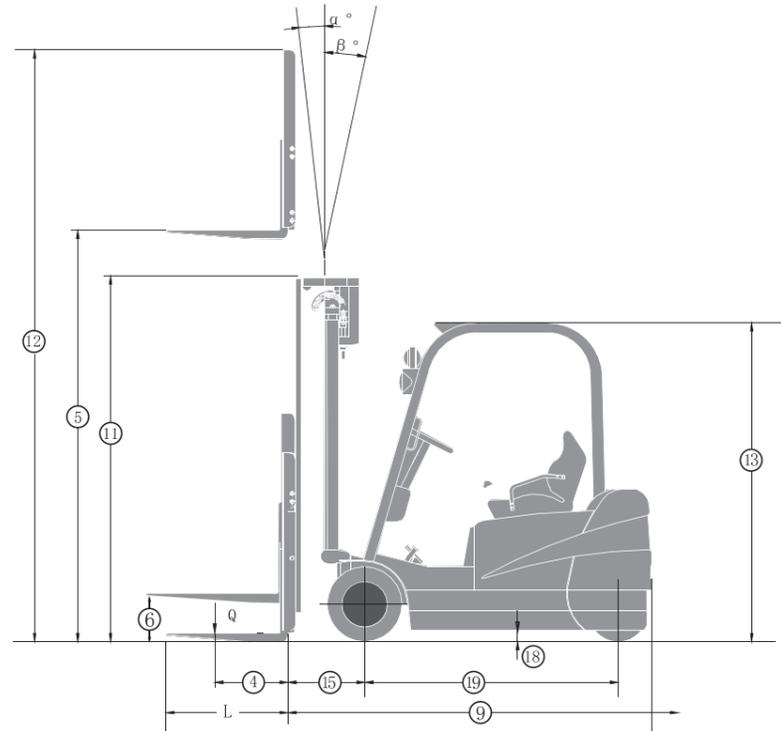
UNITED MOTOR WORKS (SIAM) PCL
No. 2 Phahon Yothin Road, Tambol Prachathipat,
Amphur Thanyaburi, Pathumthani 12130

- 0-2033-5959
- @unitedmotorworks
- marketing@umwsiam.com
- www.umwsiam.com

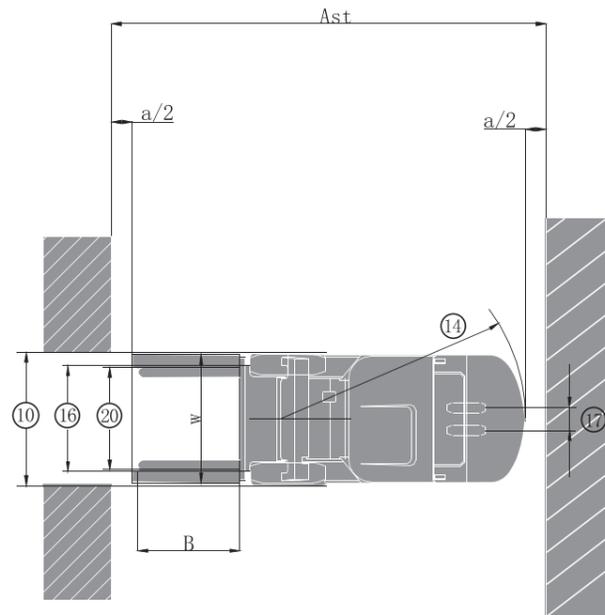


Corporate Brochure

M SERIES Front Drive 3-wheel 1.6-2.0t electric forklift Lithium battery



$a=200\text{ mm safety clearance}$
 $AST=a+(14)+(15)+\sqrt{W^2+(B/2)^2}$



Specification	1	Model		FB16S-MJZ	FB18S-MJZ	FB20S-MJZ	
	2	Rated capacity	kg		1600	1800	2000
3	Load centre	mm		500	500	500	
4	Lifting height	mm		3000	3000	3000	
5	Free lifting height	mm		0	0	0	
6	Fork size	T×W×L	mm	35×100×920	35×100×920	35×100×920	
7	Tilting angle	F/R (α°/β°)	Deg	6.5°/6.5°	6.5°/6.5°	6.5°/6.5°	
Dimensions	8	Overall Dimension	Length (to forkface)	mm	1979	1979	2094
	9		Width	mm	1070	1070	1140
	10		Height when mast lowered	mm	1975	1975	1975
	11		Height when mast extended	mm	4010	4010	4010
	12		Height to safeguard	mm	1971	1971	2011
	13	Turning radius	Min.	mm	1643	1643	1758
	14	Front overhang		mm	371	371	371
	15	Tread	F/R	mm	924/186	924/186	942/186
	16	Ground clearance	Min.	mm	90	90	90
	17	Wheelbase		mm	1400	1400	1515
18	Fork spread	Min./Max.	mm	200/890	200/890	200/890	
19	Working aisle width with pallet(Ast)*	1000×1200 crossways	mm	3340	3340	3445	
20		800×1200 lengthways	mm	3464	3464	3579	
Performance	21	Speed	Travel(Laden)	km/h	13	13	13
	22		Travel(Unladen)	km/h	13	13	13
	23		Lifting(Laden)	mm/s	290	280	255
	24		Lifting(Unladen)	mm/s	445	435	435
	25	Gradeability	Laden	%	15	15	15
	26		Unladen	%	15	15	15
	27	Service weight	Include battery box	kg	3080	3140	3430
	28	Tyre	Front×2		18×7-8	18×7-8	200/50-10
29	Rear×2			15×4 ^{1/2} -8	15×4 ^{1/2} -8	15×4 ^{1/2} -8	
Driven	30	Motor	Driven motor	kw	4×2	4×2	4×2
	31		Pump motor	kw	9.2	11	11
	32	Battery	Lithium battery	V/Ah	48/450	48/450	48/450
	33	Controller	Type		AC	AC	AC
	34		Manufacturer		ZAPI	ZAPI	ZAPI
	35	Operating pressure for attachment		Mpa	14.5	14.5	17.5

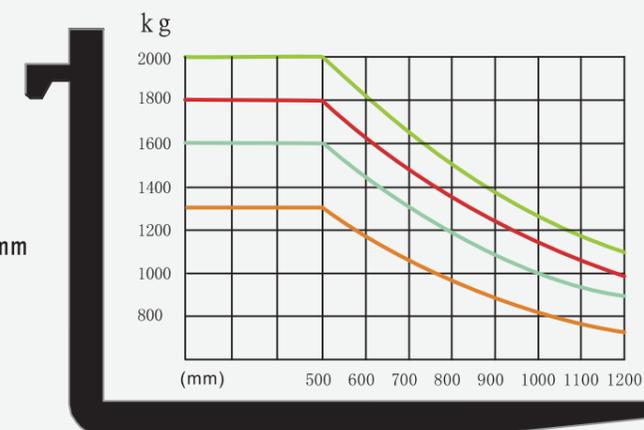


M SERIES Front Drive 3-wheel 1.6-2.0t electric forklift mast

Type	Model	Max. fork height mm	Overall height				Free lift		Front Overhang mm	Tilt range		Capacity		
			Lowered mm	Extended		Without backrest mm	with backrest mm	FWD Deg		BWD Deg	load capacity at 500mm			
				Without backrest mm	With backrest mm						Single tyre			
											1.6t kg	1.8t kg	2.0t kg	
2-stage mast	BM250	2500	1725	3010	3480	0	0	376	6.5	6.5	1600	1800	2000	
	BM270	2700	1825	3210	3680	0	0	376	6.5	6.5	1600	1800	2000	
	BM300	3000	1975	3490	4010	0	0	376	6.5	6.5	1600	1800	2000	
	BM330	3300	2125	3790	4310	0	0	376	6.5	6.5	1600	1800	2000	
	BM350	3500	2225	3990	4510	0	0	376	6.5	6.5	1600	1800	2000	
	BM370	3700	2325	4190	4710	0	0	376	6.5	6.5	1600	1800	2000	
	BM400	4000	2525	4490	5010	0	0	376	3.5	5	1600	1800	2000	
	BM425	4250	2650	4760	5280	0	0	376	3.5	5	1500	1700	1900	
	BM450	4500	2775	4990	5510	0	0	376	3.5	5	1400	1600	1800	
	BM550	5500	3325	5990	6510	0	0	376	3.5	5	1150	1200	1300	
Full free 2-stage mast	BFM250	2500	1725	3010	3465	1200	760	376	6.5	6.5	1600	1800	2000	
	BFM270	2700	1825	3210	3665	1300	860	376	6.5	6.5	1600	1800	2000	
	BFM300	3000	1975	3490	4010	1450	1010	376	6.5	6.5	1600	1800	2000	
	BFM330	3300	2125	3790	4310	1600	1160	376	6.5	6.5	1600	1800	2000	
	BFM350	3500	2225	3990	4510	1700	1260	376	6.5	6.5	1600	1800	2000	
	BFM370	3700	2325	4190	4710	1800	1360	376	6.5	6.5	1600	1800	2000	
Full free 3-stage mast	BTFM400	4000	2525	4490	5010	2000	1560	376	3.5	5	1600	1800	2000	
	BTFM435	4350	1975	4860	5360	1425	995	376	3.5	5	1500	1700	1900	
	BTFM450	4500	2025	4990	5510	1475	1045	376	3.5	5	1400	1600	1800	
	BTFM480	4800	2125	5290	5810	1575	1145	376	3.5	5	1300	1500	1650	
	BTFM500	5000	2225	5490	6010	1675	1245	376	3.5	5	1250	1450	1500	
	BTFM550	5500	2390	5990	6510	1840	1410	376	3.5	5	1150	1200	1300	
	BTFM600	6000	2575	6490	7010	2025	1595	376	3.5	5	1050	1100	1200	
BTFM650	6500	2790	6990	7510	2205	1775	376	3.5	5	900	950	1000		

Load Chart

LIFT HEIGHT ≤ 3000 mm



REAR DRIVE 3-WHEEL ELECTRIC FORKLIFT 1.6TON

ECONOMIC
PRODUCT

SPECIFICATION

Rear Drive 3-wheel Electric Forklift 1.6ton



ZAPI ACE2 Controller, horizontally located in the counter balance weight.



Rear drive, with one pc of driving motor.

One mini rear steering wheel makes the turning radius smaller.



Battery capacity 48V425AH.



specification	1	Model		FB16S-MHJZ	
	2	Power		ZAPI	
	3	Rated capacity	kg	1600	
	4	Load centre	mm	500	
	5	Lifting height	mm	3000	
	6	Free lifting height	mm	0	
Dimension	7	Fork size	L×W×T	mm	920×100×35
	8	Tilting angle	F/R (α ° / β °)	Deg	3°/6°
	9	Overall Dimension	Length(to forkface)	mm	1897
	10		Width	mm	1070
	11		Height when mast lowered	mm	1975
	12		Height when mast extended (with backrest)	mm	4010
	13		Height to safeguard	mm	1971
	14	Turning radius		mm	1544
	15	Front overhang		mm	371
	16/17	Tread	F/R	mm	930/0
	18	Ground clearance Min.		mm	85
	19	Wheelbase		mm	1250
	20	Fork spread	Min/Max	mm	200/890
	21	Working aisle width with pallet(Ast)*	1000×1200 crossways	mm	3245
22	800×1200 lengthways		mm	3370	
Performance	23	Speed	Travel(Laden)	km/h	12
	24		Travel(Unladen)	km/h	13
	25		Lifting(Laden)	km/h	280
	26		Lifting(Unladen)	km/h	440
	27	Gradeability	Laden	%	10
	28		Unladen	%	10
	29	Self weight	Include battery box	kg	3240
	30	Tyre	Front×2		18×7-8
31	Rear×1			18×7-8	
Driven	32	Motor	Driven motor	kw	4.5
	33		Pump motor	kw	11
	34	Lithium battery	Standard(option)	V/Ah	48/350(48/450)
	35	Operating pressure for attachment		Mpa	14.5

M Series Forklift

06/07

High Performance

- » **Working Flexibility:** Smaller turning radius 1544mm makes it much more flexible working in the narrow channels and crowded room.
- » **High Interchangeability:** High interchangeability with Maximal front drive electric forklift, such as mast, hand brake, steering wheel, front wheel and so on.
- » **Cost-effective:** equipped with 48V battery, long working hours, powerful performance.
- » **Stable Performance:** operating pressure is 14.5Mpa, hydraulic system is much stable.

