



M SERIES

3-WHEEL ELECTRIC FORKLIFT 1.6 TON

www.umwsiam.com



M Series Forklift



UNITED MOTOR WORKS (SIAM) PCL

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0-2033-5959

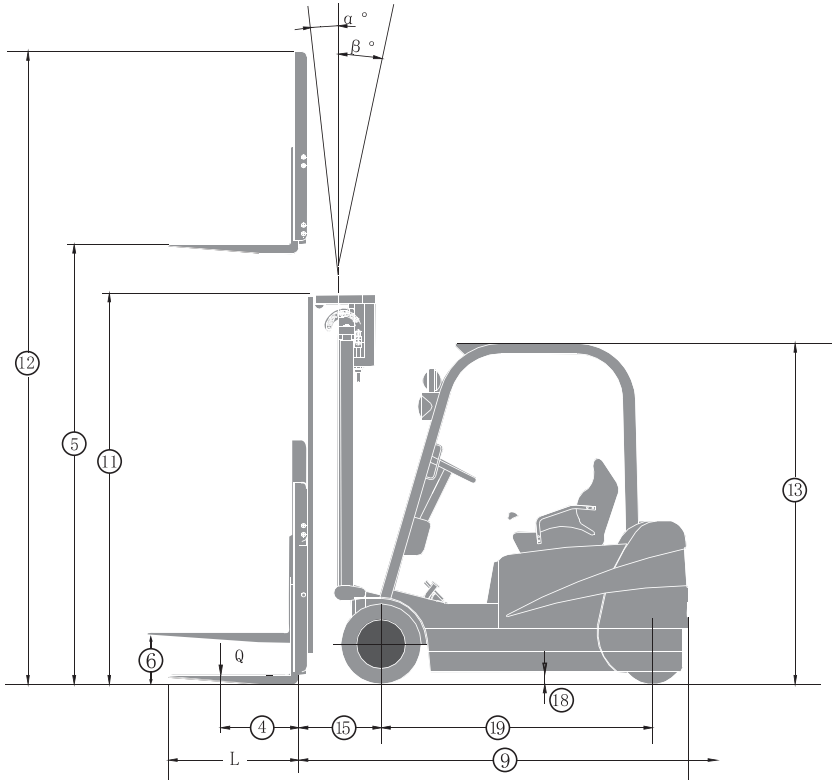
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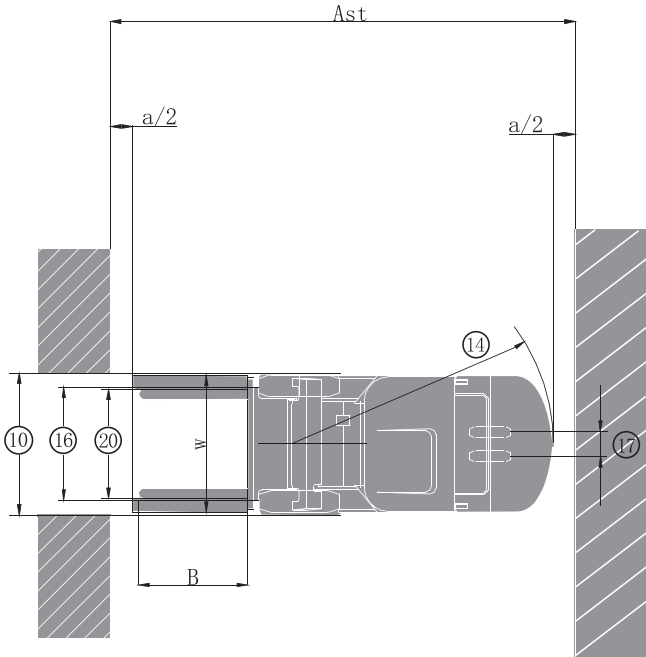
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maximal

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



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



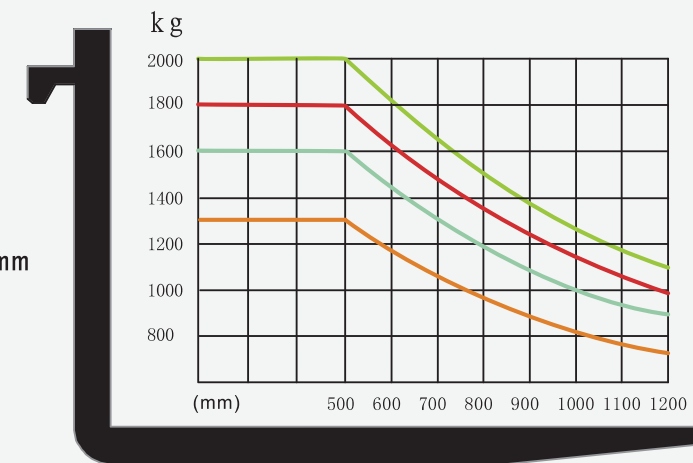
Specification	1	Model		FB16S-MJZ	FB18S-MJZ	FB20S-MJZ
	2	Rated capacity	kg	1600	1800	2000
	3	Load centre	mm	500	500	500
	4	Lifting height	mm	3000	3000	3000
	5	Free lifting height	mm	0	0	0
	6	Fork size	T×W×L	35×100×920	35×100×920	35×100×920
	7	Tilting angle	F/R (α°/β°)	6.5°/6.5°	6.5°/6.5°	6.5°/6.5°
Dimensions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

M SERIES Front Drive 3-wheel 1.6-2.0t 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 tyre		
											1.6t	1.8t	2.0t
		mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg	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
	BFM400	4000	2525	4490	5010	2000	1560	376	3.5	5	1600	1800	2000
Full free 3-stage mast	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



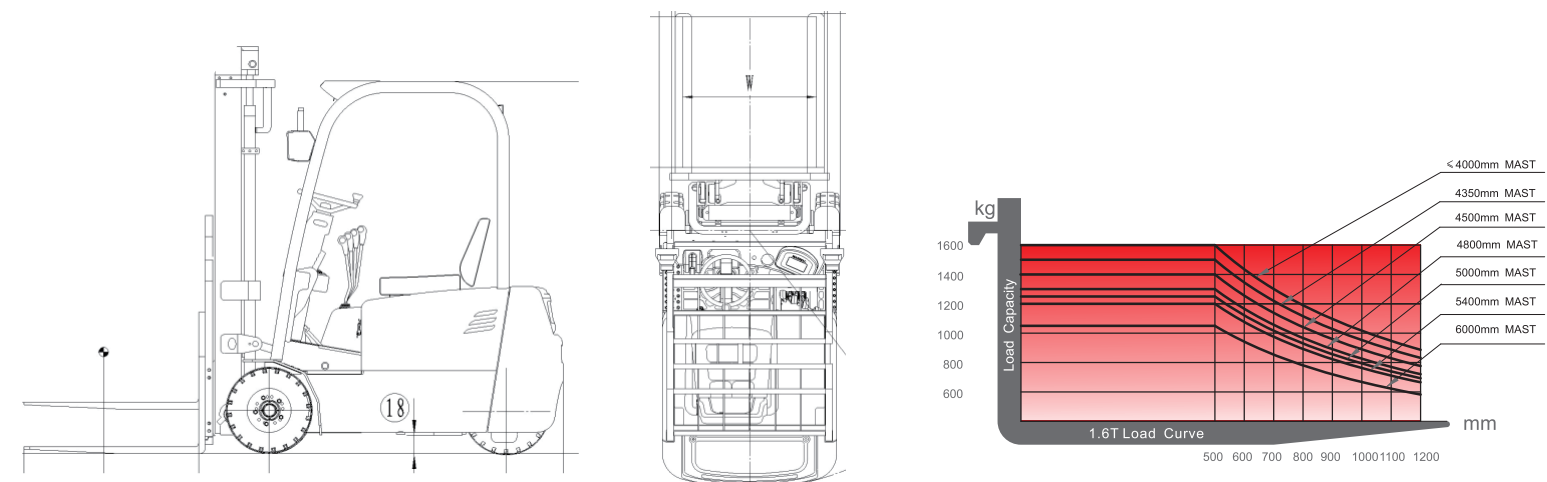
ZAPIACE2 Controller,
horizontally located
in the counter balance
weight.

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



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.