

# MFA15/20

## Electric Reach Stacker

**Load capacity: 1500-2000 Kgs**



### COMFORTABLE

- 1) Electric steering, more labor-saving and flexible.
- 2) Combined operation of handle and valve, easier control.
- 3) Shock-absorbing pedal, comfort driving.
- 4) Curtis controller, more precise.
- 5) AC drive motor, maintenance-free.

### RELIABLE

- 1) Whole system adopts AMP plugs.
- 2) German standard joints and over-plate joints greatly reduce the possibility of oil leakage, reduce parts costs and maintenance time.
- 3) Five wheels, low-gravity center design, more stable.
- 4) Shorter body design, smaller turn radius.
- 5) Large reach stroke of mast forward movement, smaller working aisle required.

### SAFE

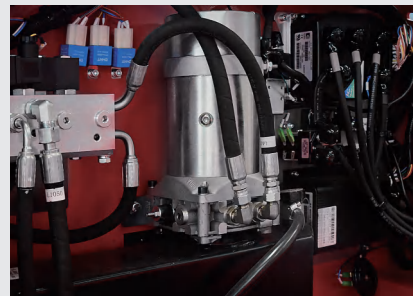
- 1) Emergency stop switch, handle upper and lower position brake, belly switch and other safety functions ensure driving safety
- 2) Slope anti-slip function.
- 3) Stable arms, protect the driver.
- 4) When the arms are lowered, the vehicle speed is reduced by 30%-40%, increasing safety.
- 5) Automatic deceleration when turning, prevent vehicle from rolling over when turning too fast.
- 6) Mast lowering buffer, protect cargo safety.

### OPTIONS

- 1) Single cylinder/double cylinder masts.
- 2) Side shifter/forward and backward tilt ( one of two).
- 4) 24V/270AH lead-acid battery.
- 5) Overhead protection guard.
- 6) Side pull battery design.
- 7) 24V150AH or 24V200AH Lithium battery.



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# SPECIFICATION

Standard					
1.1	Manufacturer		MiMA	MiMA	MiMA
1.2	Model		MFA15 (Single cylinder, single mast) (Single cylinder, duplex mast)	MFA15 (Double cylinders, duplex mast)	MFA15(Triplex mast)
1.3	Power type		Battery	Battery	Battery
1.4	Operation		Stand on	Stand on	Stand on
1.5	Load capacity	Q(kg)	1500	1500	1500
1.6	Load center distance	C(mm)	500	500	500
1.7	Front overhang	x(mm)	120	130	130
1.8	Wheelbase	y(mm)	1430	1430	1430

## Weights

2.1	Service weight (incl.battery)	kg	1850	2100	2150
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## Wheels

3.1	Tyre type,front/rear		Polyurethane	Polyurethane	Polyurethane
3.2	Tyre size, front	mm	φ210×85	φ210×85	φ210×85
3.3	Tyre size, rear	mm	φ230×75	φ230×75	φ230×75
3.4	Caster wheel	mm	φ150×50	φ150×50	φ150×50
3.5	Wheels,number front/rear (X=driven)		2/1x+2	2/1x+2	2/1x+2
3.6	Track width, rear	b10(mm)	678	678	678

## Dimensions

4.1	Mast retracted height	h1(mm)	Refer to mast specification	Refer to mast specification	Refer to mast specification
4.2	Lift height	h3(mm)	Refer to mast specification	Refer to mast specification	Refer to mast specification
4.3	Mast extended height	h4(mm)	Refer to mast specification	Refer to mast specification	Refer to mast specification
4.4	Pedal height	h7(mm)	170	170	170
4.5	Support arms height	h8(mm)	245	245	245
4.6	Overall length	L1(mm)	≤2400	≤2400	≤2450
4.7	Overall width	b1/b2(mm)	900/1105	900/1105	900/1105
4.8	Fork dimensions	l/e/s(mm)	1070/100/35	1070/100/35	1070/100/35
4.9	Installation level		2A	2A	2A
4.10	Fork outside spread	b5(mm)	220-710	220-710	220-710
4.11	Reach distance	l4(mm)	570	570	570
4.12	Mast ground clearance	m1(mm)	50	50	50
4.13	Aisle width with pallet 1000*1200mm, C=500mm (with pedel folded)	Ast(mm)	2690	2690	2690
4.14	Aisle width with pallet 800*1200mm, C=600mm (with pedel folded)	Ast(mm)	2690	2690	2690
4.15	Turning radius (pedal folded/unfolded)	Wa(mm)	1760	1760	1760

## Performance

5.1	Travelling speed, laden/unladen	km/h	5.5/6	5.5/6	5.5/6
5.2	Lift speed, laden/unladen	mm/s	80/130	120/150	120/150
5.3	Lowering speed, laden/unladen	mm/s	100/130	140/130	100/95
5.4	Gradeability, laden/unladen (S2-5min)	%(tanθ )	6/8	6/8	6/8
5.5	Service brake		Electromagnetic	Electromagnetic	Electromagnetic

## Drive

6.1	Drive motor, rating S2=60	kw	1.5	1.5	1.5
6.2	Lift motor, rating S3=15%	kw	2*/3	3	3
6.3	Battery voltage/nominal capacity	V/Ah	24/210(270AH optional)	24/210(270AH optional)	24/210(270AH optional)
6.4	Battery weight	kg	175	175	175
6.5	Steering System		EPS	EPS	EPS

# SPECIFICATION

Standard					
1.1	Manufacturer		MiMA	MiMA	MiMA
1.2	Model		MFA20 (Single cylinder, single mast) (Single cylinder, duplex mast)	MFA20 (Double cylinders, duplex mast)	MFA20 (Triplex mast)
1.3	Power type		Battery	Battery	Battery
1.4	Operation		Stand on	Stand on	Stand on
1.5	Load capacity	Q(kg)	2000	2000	2000
1.6	Load center distance	C(mm)	500	500	500
1.7	Front overhang	x(mm)	120	130	130
1.8	Wheelbase	y(mm)	1630	1630	1630

## Weights

2.1	Service weight (incl.battery)	kg	2100	2200	2250
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## Wheels

3.1	Tyre type,front/rear		Polyurethane	Polyurethane	Polyurethane
3.2	Tyre size, front	mm	φ210×85	φ210×85	φ210×85
3.3	Tyre size, rear	mm	φ230×75	φ230×75	φ230×75
3.4	Caster wheel	mm	φ150×50	φ150×50	φ150×50
3.5	Wheels,number front/rear (X=driven)		2/1x+2	2/1x+2	2/1x+2
3.6	Track width, rear	b10(mm)	678	678	678
3.7	Wheel tread, load side	b11(mm)	1015	1015	1015

## Dimensions

4.1	Mast retracted height	h1(mm)	Refer to mast specification	Refer to mast specification	Refer to mast specification
4.2	Lift height	h3(mm)	Refer to mast specification	Refer to mast specification	Refer to mast specification
4.3	Mast extended height	h4(mm)	Refer to mast specification	Refer to mast specification	Refer to mast specification
4.4	Pedal height	h7(mm)	170	170	170
4.5	Support arms height	h8(mm)	245	245	245
4.6	Overall length	L1(mm)	≤2530	≤2530	≤2600
4.7	Overall width	b1/b2(mm)	900/1105	900/1105	900/1105
4.8	Fork dimensions	l/e/s(mm)	1070/122/40	1070/122/40	1070/122/40
4.9	Installation level		2A	2A	2A
4.10	Fork outside spread	b5(mm)	264-732	264-732	264-732
4.11	Reach distance	l4(mm)	685	685	685
4.12	Mast ground clearance	m1(mm)	50	50	50
4.13	Aisle width with pallet 1000*1200mm, C=500mm (with pedel folded)	Ast(mm)	2790	2790	2815
4.14	Aisle width with pallet 800*1200mm, C=600mm (with pedel folded)	Ast(mm)	2790	2790	2840
4.15	Turning radius (pedal folded/unfolded)	Wa(mm)	1950	1950	1950

## Performance

5.1	Travelling speed, laden/unladen	km/h	5.5/6	5.5/6	5.5/6
5.2	Lift speed, laden/unladen	mm/s	95/150	95/150	95/150
5.3	Lowering speed, laden/unladen	mm/s	100/95	100/95	100/95
5.4	Gradeability, laden/unladen (S2-5min)	%(tanθ )	6/8	6/8	6/8
5.5	Service brake		Electromagnetic	Electromagnetic	Electromagnetic

## Drive

6.1	Drive motor, rating S2=60	kw	1.5	1.5	1.5
6.2	Lift motor, rating S3=15%	kw	3	3	3
6.3	Battery voltage/nominal capacity	V/Ah	24/210(270AH optional)	24/210(270AH optional)	24/210(270AH optional)
6.4	Battery weight	kg	175	175	175
6.5	Steering System		EPS	EPS	EPS