MiMA®

V202404-EN

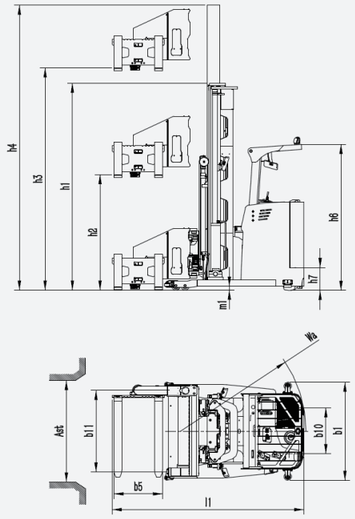
Specifications

Characterization						
1.1	Manufacturer		MiMA	MiMA	MiMA	MiMA
1.2	Model		MC12	MC12SQ	MC16	MC16SQ
1.3	Power Type		Battery	Battery	Battery	Battery
1.4	Driving mode		Stand-on	Stand-on	Stand-on	Stand-on
1.5	Rated Load	Q(kg)	1200	1200	1600	1600
1.6	Load Center Distance	C(mm)	550	550	600	600
1.7	Front Overhang	X(mm)	658	658	666	666
1.8	Wheelbase	y(mm)	1640	1640	1700	1700
Weight						
2.1	Overall truck weight (including battery)	kg	4860	5160	5330	5660
Tire						
3.1	Tire Type, Drive Side / Load Bearing Side		PU	PU	PU	PU
3.2	Load tire	mm	φ140×100	φ140×100	φ140×127	φ140×127
3.3	Driver tire	mm	φ380×165	φ380×165	φ380×165	φ380×165
3.4	Stabilizer wheel size	mm	φ204×76	φ204×76	φ204×76	φ204×76
3.5	Number of wheels, front/rear (x=drive wheel)		4 /1X+2	4 /1X+2	4 /1X+2	4 /1X+2
3.6	Drive wheelbase	b10(mm)	726	726	726	726
3.7	Load wheelbase	b11(mm)	1210	1210	1280	1280
Size						
4.1	Mast closed height	h1(mm)	2435	2635	2565	2765
4.2	Free lifting height	h2(mm)	0	1750	0	1750
4.3	Lifting height	h3(mm)	3000	4500	3000	4500
4.4	Maximum height of the mast when lifting (including shelf)	h4(mm)	3935	5440	4065	5570
4.5	Height of roof rack	h6(mm)	2260/2300	2260/2300	2260/2300	2260/2300
4.6	Platform height	h7(mm)	355	355	355	355
4.7	Overall length	l1(mm)	2940	2940	3020	3020
4.8	Overall width	b1(mm)	1475[1]	1475[1]	1575[1]	1575[1]
4.9	Fork size	l/e/s(mm)	1100/125/50	1100/125/50	1200/125/50	1200/125/50
4.10	Installation class		II A	II A	II A	II A
4.11	Fork Outside Distance	b5(mm)	265~765	265~765	265~765	265~765
4.12	Minimum Ground Clearance	m1(mm)	60	60	60	60
4.13	Minimum stacking aisle width	Ast(mm)	1500[2]	1500[2]	1600[2]	1600[2]
4.14	Turning radius	Wa(mm)	1910	1910	1980	1980
4.15	Minimum main aisle width	Wa(mm)	≥(3350+350)[3]	≥(3350+350)[3]	≥(3450+350)[3]	≥(3450+350)[3]
Performance						
5.1	Driving speed, load/un loaded	km/h	7.5/8	7.5/8	7.5/8	7.5/8
5.2	Lifting speed,load/un loaded	mm/s	260/300	260/300	260/300	260/300
5.3	Lowering speed,load/un load	mm/s	360/390	360/390	360/390	360/390
Driving						
6.1	Drive motor power (S2-60min)	kw	5.5 AC	5.5 AC	5.5 AC	5.5 AC
6.2	Lifting motor power(S3-15%)	kw	15 AC	15 AC	15 AC	15 AC
6.3	Battery voltage/rated capacity	V/Ah	48/390[4]	48/390[4]	48/480[4]	48/480[4]
6.4	Battery weight (min)	kg	618	618	726	726
6.5	Steering system		EPS	EPS	EPS	EPS
Others						
7.1	Battery replacement		Side-pull	Side-pull	Side-pull	Side-pull

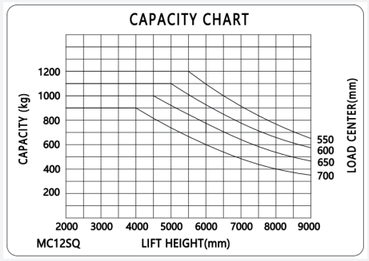
*Standard model data, subject to change depending on configuration

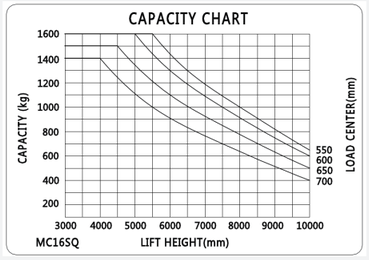
[1]: The overall width of MC12 model without guide wheel is 1370mm, and 1470mm for MC16 model;
[2]: Stacking aisle width +50mm for models with optional magnetic navigation function
[3]:Safe distance +350mm for the width of the main aisle;
[4]: Optional lithium battery specifications: 48V/300Ah.

2D View



Load Chart





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MiMA®

Min. Space Max. Performance

BANYITONG SCIENCE & TECHNOLOGY DEVELOPING CO.,LTD.

Since 1994

3-Way Pallet Stacker

(Stand on)

MC12/16

Load Capacity: 1200kg/1600kg

www.mimaforklift.com

Features

High-strength mast

- H-shaped mast made of channel steel, sturdy and durable .
- Large cross-section design for high-strength masts.
- Outstanding high-level load capacity, with reduced swaying of the mast .
- Improved safety for high-level stacking.

Navigation modes

- Mechanical guide rail mode: Beams are installed at the bottom of the shelves, and guide rails are installed on the ground inside the aisles. Vehicles travel along the tracks in the aisles, ensuring efficient and safe operation.
- Magnetic navigation mode (optional): Saves bottom beams. Goods can be directly placed on the ground without the need for ground guide rails, reducing warehouse construction costs.

Higher efficiency

- Equipped with pure electric three-way fork head for safe, reliable, smooth, and efficient operation
- Pure electronic steering system for energy efficiency
- Standard fork view system for safer and more efficient stacking operations
- 48V maintenance-free full AC system for faster, more precise vehicle response, higher efficiency, and energy saving, meeting the requirements of heavy working conditions.

Higher safety

- Equipped with advanced imported brand controllers for enhanced stability and safety
- Narrow mast and open slide design provide drivers with excellent visibility while ensuring sufficient rigidity
- Equipped with driving wheel angle display function for easier operation
- Optional features such as height preselection, addressing, end-of-aisle deceleration, and parking meet customer demands for efficiency and safety.

Stand-on driving operation

- Human-machine engineering design with backrest, leg rest, and armrest, enhancing operational comfort and reducing fatigue.
- Spacious stand-on driving space for easier operation.

Electric proportional handle

- High reliability, easy operation, and quick response.
- Good flexibility with precise control capability, allowing for quick adjustments to adapt to various complex and changing conditions.
- Easy maintenance and environmentally friendly, contributing to energy savings.

Control panel

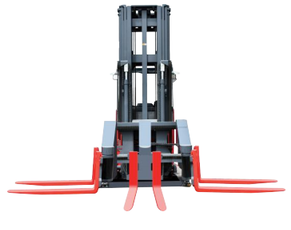
- Rational human-machine layout for convenient operation.
- High-definition display screen with wheel display function for enhanced safety.
- Joystick operation for convenient and quick control.

The fork can rotate 180° and move left and right, making picking up goods more efficient.

The forklift can freely rotate 180° and move left and right, without the need for turning in the warehouse shelves of ultra-narrow 1.5m/1.6m aisles when picking up goods with the fork, making the operation simple and convenient, significantly improving storage efficiency.

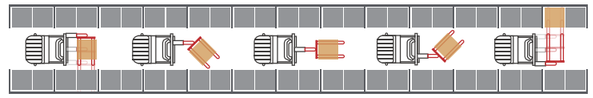
Ultra-low energy consumption, super-strong power, and ultra-long endurance.

The forklift adopts a 48V full AC maintenance-free system, providing quicker and more precise response, lower current, lower energy consumption, meeting the requirements of heavy-duty operations, and reducing later maintenance costs. Advanced imported controllers and core hydraulic components ensure stability, reliability, higher efficiency, and more stable performance.

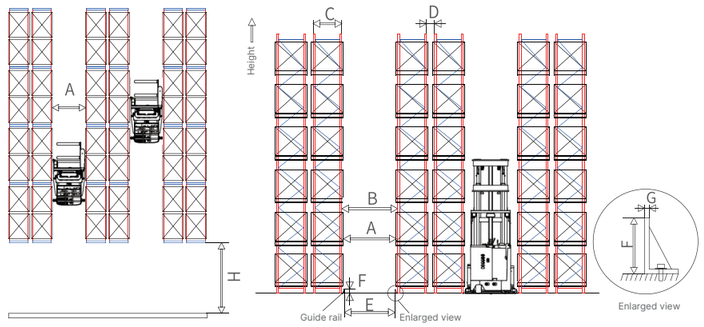


Fork rotation of 180°

Fork lateral movement



Rack and Aisle Dimensions



Dimension Sheet

Installation-type guide rail	MC12			MC16		
Pallet size	1000×1000 1000×1200	1100×1100	1200×1200 1000×1200	1000×1000 1000×1200	1100×1100	1200×1200 1000×1200
Load center	C500	C550	C600	C500	C550	C600
Fork length	1000	1100	1200	1000	1100	1200
A Net width of aisle/ goods to goods distance	1500/1550(1)	1500/1550(1)	1600/1650(1)	1600/1650(1)		
B Beam spacing between the rack	1700/1750(1)	1700/1750(1)	1800/1850(1)	1800/1850(1)		
C Rack depth	800	900	1000	800	900	1000
D Rack back-to-back distance	⩾300			⩾300		
H Main aisle width	⩾3700		⩾3800	⩾3800		
E Inner distance of the guide rail	1480±5			1580±5		
F Guide rail height	⩾100			⩾100		
G Guide rail thickness	⩾8			⩾10		

Note: (1) The net aisle dimensions are indicated for racks in magnetic navigation mode. The table above shows corresponding parameters under standard conditions. For specific conditions, please consult a professional sales engineer.

Mast Specification

Duplex Mast											
Model	MC	12-30	12-35	12-40	12-45	12-50	12-55	12-60			
Lift height	h3(mm)	3000	3500	4000	4500	5000	5500	6000			
Height of mast, extended (with load-backrest)	h4(mm)	3935	4435	4935	5435	5935	6435	6935			
Height of mast, lowered	h1(mm)	2435	2685	2935	3185	3435	3685	3935			
Free Triplex Mast											
Model	MC	12SQ-45	12SQ-50	12SQ-55	12SQ-60	12SQ-65	12SQ-70	12SQ-75	12SQ-80	12SQ-85	12SQ-90
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
Height of mast, extended (with load-backrest)	h4(mm)	5440	5940	6440	6940	7440	7940	8440	8940	9440	9940
Height of mast, lowered	h1(mm)	2635	2805	2970	3135	3305	3470	3635	3805	3970	4135
Free lift height	h2(mm)	1750	1910	2080	2250	2410	2580	2750	2910	3080	3250
Duplex Mast											
Model	MC	16-30	16-35	16-40	16-45	16-50	16-55	16-60			
Lift height	h3(mm)	3000	3500	4000	4500	5000	5500	6000			
Height of mast, extended (with load-backrest)	h4(mm)	4065	4565	5065	5565	6065	6565	7065			
Height of mast, lowered	h1(mm)	2565	2815	3065	3315	3565	3815	4065			
Free Triplex Mast											
Model	MC	16SQ-45	16SQ-50	16SQ-55	16SQ-60	16SQ-65	16SQ-70	16SQ-75	16SQ-80	16SQ-85	16SQ-90	16SQ-95	16SQ-100
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
Height of mast, extended (with block)	h4(mm)	5570	6070	6570	7070	7570	8070	8570	9070	9570	10070	10570	11070
Height of mast, lowered	h1(mm)	2765	2935	3100	3265	3435	3600	3765	3935	4100	4265	4435	4600
Free lift height	h2(mm)	1750	1910	2080	2250	2410	2580	2750	2910	3080	3250	3410	3580

*The data in the above table is the standard model data，If you have special application or problems, please contact us.