

MiMA Product Series

MiMA[®]
MATERIAL HANDLING EQUIPMENT
DESIGNER & MANUFACTURER
20 YEARS
2000-2019



Standard Configuration

- Curtis Controller
- Electric Power Steering System
- AC Drive System
- Disc Brake
- Solid PU Wheel
- Side Pull Battery
- Camera
- Mast Buffering System
- Shock-absorption Cushion
- Drive wheel Display
- Liquid & Temperature Display
- Intelligent Charger

Options

- Cold Storage System
- Magnetic conduction mode
- Fork height setting
- Fork Side Shift Rotation Linkage
- Semi automation
- AGV

Agent / Distributor

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MIMA QR CODE



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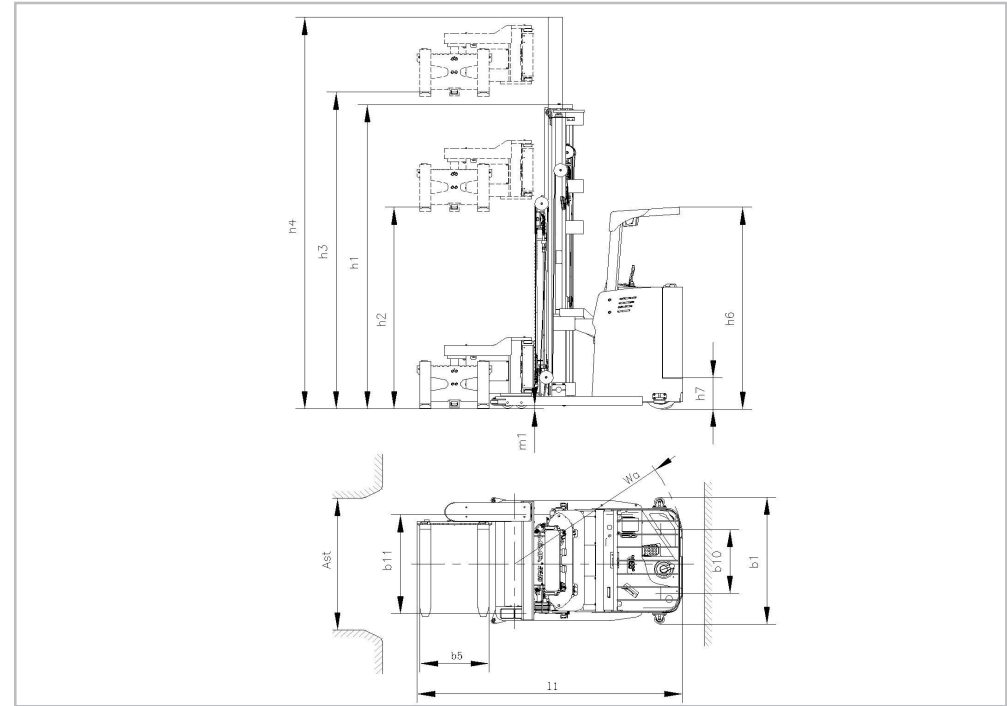
3-WAY PALLET STACKER (STAND-ON) MC10/MC15 (Stand On)

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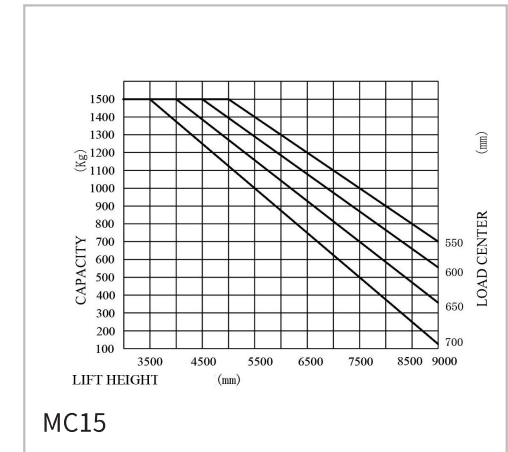
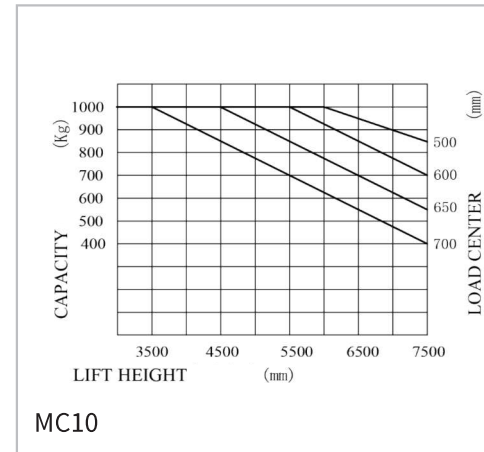
MIMA PRODUCT SPECIFICATION

Standard						
1.1	Manufacturer		MiMA	MiMA	MiMA	MiMA
1.2	Model		MC10	MC10SQ	MC15	MC15SQ
1.3	Power type		Battery	Battery	Battery	Battery
1.4	Operation type		Stand on	Stand on	Stand on	Stand on
1.5	Rated capacity	Q(kg)	1000	1000	1500	1500
1.6	Load center	C(mm)	500	500	600	600
1.7	Front overhang	x(mm)	657	657	670	670
1.8	Wheelbase	y(mm)	1605	1605	1700	1700
Weight						
2.1	Service weight (incl. battery)	kg	4260	4800	4690	5520
Tire						
3.1	Wheel type, drive side/load side		PU	PU	PU	PU
3.2	Tyre size, load side	mm	φ140 X100	φ140 X100	φ140 X127	φ140 X127
3.3	Tyre size, drive side	mm	φ380 X165	φ380 X165	φ380 X165	φ380 X165
3.4	Balance wheel size	mm	φ204 X76	φ204 X76	φ204 X76	φ204 X76
3.5	Wheel quantity, front/rear(X= drive)		4 /1x+2	4 /1x+2	4 /1x+2	4 /1x+2
3.6	Wheel tread, drive side	b10(mm)	726	726	726	726
3.7	Wheel tread, load side	b11(mm)	1210	1210	1280	1280
Dimension						
4.1	Height of mast closed	h1(mm)	2595	2800	2565	2823
4.2	Full free lifting height	h2(mm)	0	1690	0	1745
4.3	Lifting height	h3(mm)	3000	4500	3000	4500
4.4	Height of mast with backrest	h4(mm)	4085	5584	4040	5555
4.5	overhead guard height	h6(mm)	2260/2300	2260/2300	2260/2300	2260/2300
4.6	Station board height	h7(mm)	355	355	355	355
4.7	overall length	l1(mm)	2906	2906	2985	2985
4.8	overall width	b1(mm)	1450	1450	1550	1550
4.9	fork dimensions	l/e/s(mm)	1000/125/50	1000/125/50	1200/125/50	1200/125/50
4.10	Installation level		II Level A Model	II Level A Model	II Level A Model	II Level A Model
4.11	Width across forks	b5(mm)	265 ~ 760	265 ~ 760	265 ~ 760	265 ~ 760
4.12	minimum ground clearance	m1(mm)	40	40	40	40
4.13	Stacking channel width (pallet1000x1000)	Ast(mm)	1480	1480	1600	1600
4.14	Turning radius	Wa(mm)	1880	1880	1980	1980
Function						
5.1	Drive speed, load/unload	km/h	7.5/8	7.5/8	7.5/8	7.5/8
5.2	Lift speed, load/unload	mm/s	240/290	240/290	200/250	200/250
5.3	Lower speed, load/unload	mm/s	310/310	310/310	340/340	340/340
5.4	Brake type		Mechanical	Mechanical	Mechanical	Mechanical
Driving						
6.1	Driving 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	8.6 AC	8.6 AC	8.6 AC	8.6 AC
6.3	Battery voltage/capacity	V/Ah	48/400	48/400	48/450	48/450
6.4	Battery weight	kg	675	675	740	740
6.5	Steering system		EPS	EPS	EPS	EPS
other						
7.1	Battery replace method		Side pull type	Side pull type	Side pull type	Side pull type

PRODUCT SIZE



LOAD CHART



MAST SPECIFICATION

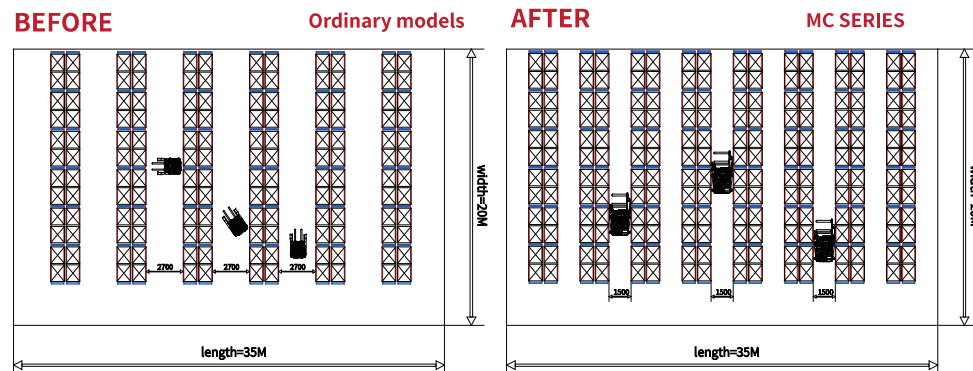
Duplex mast	MC10						MC15				
Type	MC	10-25	10-30	10-35	10-40	10-45	15-25	15-30	15-35	15-40	15-45
Lift height	h3(mm)	2500	3000	3500	4000	4500	2500	3000	3500	4000	4500
Height of mast,extended (with block)	h4(mm)	3585	4085	4585	5085	5585	3540	4040	4540	5040	5540
Height of mast,lowered	h1(mm)	2345	2595	2845	3095	3345	2315	2565	2815	3065	3315
Free lift	h2(mm)	/	/	/	/	/	/	/	/	/	/

Free triplex mast	MC10SQ										
Type	MC	10SQ-45	10SQ-50	10SQ-55	10SQ-60	10SQ-65	10SQ-70	10SQ-75			
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7500			
Height of mast,extended (with block)	h4(mm)	5584	6094	6589	7084	7594	8089	8584			
Height of mast,lowered	h1(mm)	2800	2970	3135	3300	3470	3635	3800			
Free lift	h2(mm)	1690	1850	2020	2190	2350	2520	2690			

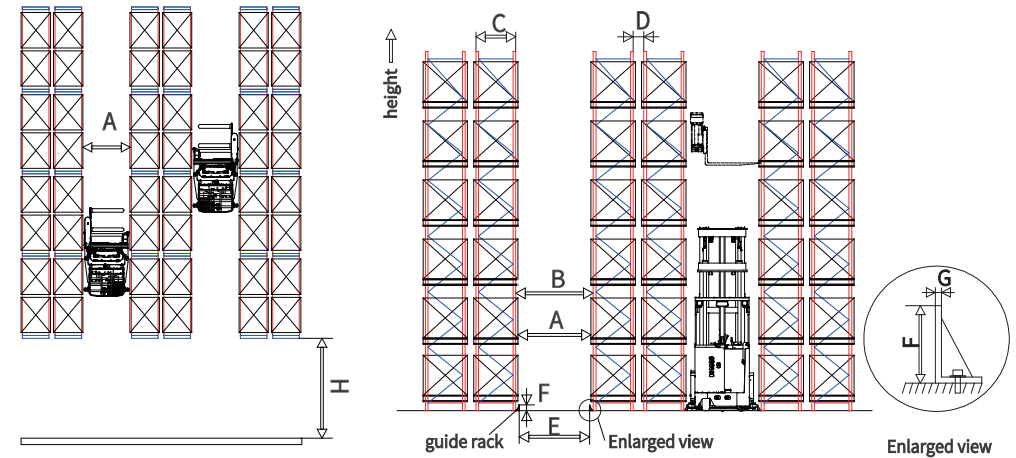
Free triplex mast	MC15SQ											
Type	MC	15SQ-45	15SQ-50	15SQ-55	15SQ-60	15SQ-65	15SQ-70	15SQ-75	15SQ-80	15SQ-85	15SQ-90	
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	
Height of mast,extended (with block)	h4(mm)	5555	6050	6550	7040	7550	8050	8550	9050	9550	10050	
Height of mast,lowered	h1(mm)	2823	2993	3158	3323	3493	3658	3823	3988	4153	4318	
Free lift	h2(mm)	1745	1905	2075	2245	2405	2575	2745	2915	3085	3255	

High storage capacity

Intensive storage in ultra-narrow Aisle, shelf design in high position. With the same occupied area, the storage capacity increase more than 30%.



Shelf and aisle dimensions



Dimensions

Installation guideway	MC10						MC15			
Tray 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	1070	1200	1000	1070	1200				
A Net width of Aisle/ cargo to cargo	1500/1550 (1)	1600/1650 (1)	1700/1750 (1)	1600/1650 (1)						
B Spacing of rack beams	1700	1900	1700	1900	1800	1800	1900	1700	1800	1700
C Shelf depth	800	800	1000	1000	1100	800	800	1000	1000	1100
D Shelf Back-to-Back Spacing	≥300	≥400	≥200	≥300	≥200	≥300	≥400	≥200	≥300	≥200
H Width of main Aisle	≥3600	≥3700	≥3800	≥3700	≥3800	≥3900				
E Inside distance of guide rail	1480±5						1580±5			
F Guide rail height	100-140						100-140			
G Guide rail thickness	≥10						≥10			

Remarks:(1)The tail mark is the net width of shelf aisle for magnetic navigation mode.

PRODUCT FEATURES

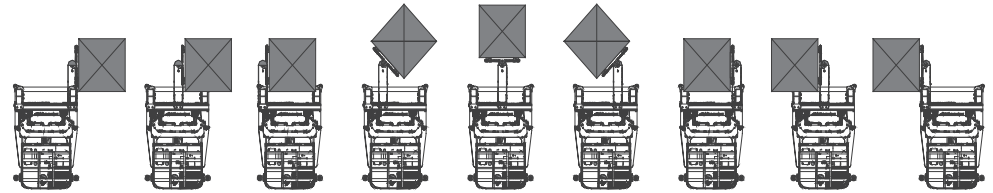
Height pre-selection (fork height setting)

Soft Ending

Soft Landing

By setting the height sensor and optimizing the hydraulic and electrical system of the whole vehicle, the fork can be operated at the specified height with one key, which completely liberates the manpower operation.

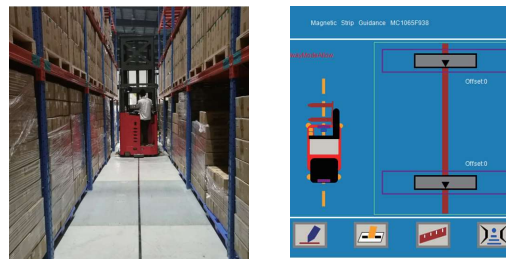
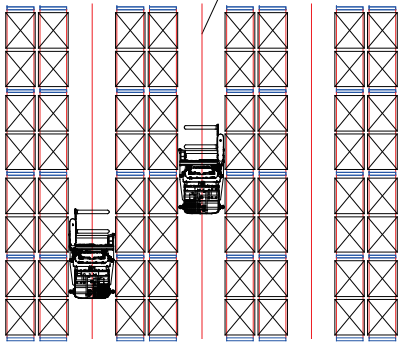
Fork Side Shift Rotation Linkage



With moving and rotating from left and right at the same time, it makes working efficiently.

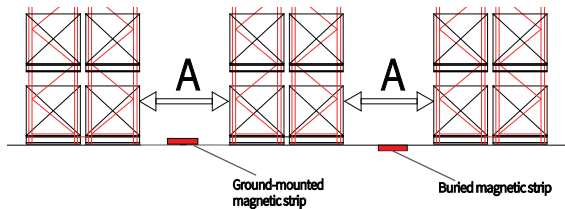
Magnetic navigation

Magnetic navigation



- Ground-mounted magnetic strip
- Buried magnetic strip

With the magnetic navigation mode of three-way forklift, it is no need bottom beam for shelf. The goods can be placed on the ground directly. This scheme cancels the construction and installation of the bottom beam and ground guide rail in the traditional narrow aisle rack scheme. This scheme shortens the construction period and reduces the cost of the rack system.



Semi-automatic/AGV



- Semi-automatic vehicle model
Provide the most suitable semi-automatic solution according to the customer's working conditions. Meeting customer's automatic needs step by step.
- AGV
AGV can use magnetic navigation, laser navigation and hybrid navigation mode, which can meet various condition.