

3-Way Electric Pallet Stacker

MC Series 1.0-1.5T 3-way pallet stacker (Stand-on Driving type)

3-way stacking function: forks can rotate 180° and do left-right side shift without body turning.

The 3-way pallet stacker is the first choice of intensive storage, which is mainly used in logistics, medicine, food and low-temperature cold storage.

- Stacking in ultra-narrow roadways and high shelf design;
- Horizontal handling;
- Load/unload cargos.

Main Features:

1. 3-way pallet stacker forks can rotate 180° and do left-right side shift without body turning, with high strength mast design. Min. net channel: 1500mm; Max. Lifting height: 9000mm. The 3-way pallet stacker can improve space utilization and increase the storage capacity.
2. Advanced Curtis controller and more stable, safer whole-AC system for high efficiency, energy conservation and environmental protection.
3. Maintenance-free whole-AC driving system for quick and accurate reaction. Maintenance-free motor, with long service life and low noise and low maintenance cost.
4. Standard electric power steering is safe and reliable, with easy and comfortable operation.
5. Large section mast structure design to ensure the rigidity of mast and improve loading performances, which is very suitable to high shelf storage.
6. Imported hydraulic parts for stable and reliable hydraulic system.
7. Side pull type battery for convenient charging and maintenance.

Specifications:

Manufacturer	MiMA	MiMA	MiMA	MiMA	MiMA
Model		MC10	MC10SQ	MC15	MC15SQ
Power type		Battery	Battery	Battery	Battery
Operation Type		Stand-on	Stand-on	Stand-on	Stand-on
Service weight (incl. battery)	kg	4260	4800	4690	5520
Rated capacity	Q(kg)	1000	1000	1500	1500
Load center	C(mm)	500	500	600	600
Lift height	h3(mm)	3000	4500	3000	4500
Fork dimension	l/e/s(mm)	1000/125/50	1000/125/50	1200/125/50	1200/125/50
Front overhang	x(mm)	657	657	670	670
Turning radius	Wa(mm)	1880	1880	1980	1980
Max. climbing ability		/	/	/	/
Travelling speed ,laden/unladen	km/h	7.5/8	7.5/8	7.5/8	7.5/8
Lifting speed ,laden/unladen	mm/s	230/300	230/300	200/300	200/300
Lowering speed,laden/unladen	mm/s	310/310	310/310	340/340	340/340



Advantages :

Safe

- Regenerative braking, mechanical disc braking, double braking, safe and reliable three sets of braking system;
- Rotation, side shift interlock function, avoid the wrong operation in the roadway, ensure the safety of the driver operation;
- The lifting system with descending buffer and lifting electronic limit ,which can offer good buffering when goods descended the lowest and rised the highest ,to make sure smooth and safe operation.
- High definition wireless video system ensures driver's vision during high stacking, improves work efficiency and safe operation.

Easy to operate, flexible and comfortable

- Standard electronic power steering, light operation, smaller turning radius and narrow body width, flexible and convenient operation;
- Forks can be 180 ° rotation and left and right side shift, which is convenient to handle and stack by three-way forks, improve efficiency;
- With body stability system of rear floating bridge design, improve the stability of high position stacking, comfortable and stable of driving.

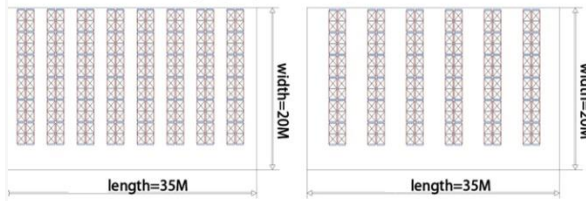
High automatic

- Optional magnetic guide function cancels the installation and construction of warehouse and shelf bottom guide rail, greatly reduce the cost of warehouse construction and shorten the construction period. With automatic orbit entry function, automatically corrects the driving directions in roadway instead of manual operation of steering wheel, reducing the labor intensity of driver and improving the labor efficiency. The safety protection for derailment and direction deviation ensures safe driving in roadway;
- Optional height pre-selection function, which can set the lifting height in advance, to achieve semi-automatic stacking operation, greatly reduce the labor intensity of drivers, improve labor efficiency;
- Optional all kinds of safety protection functions, such as lifting and walking safety protection of basic position of forks, safety protection of entry and exit roadway, speed limit of high position carrying and so on.

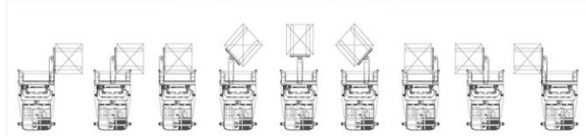
Company Exhibition:

High storage capacity

Intensive storage in ultra-narrow roadways and high shelf design. With the same occupied area, the storage capacity is increased by more than 30%.



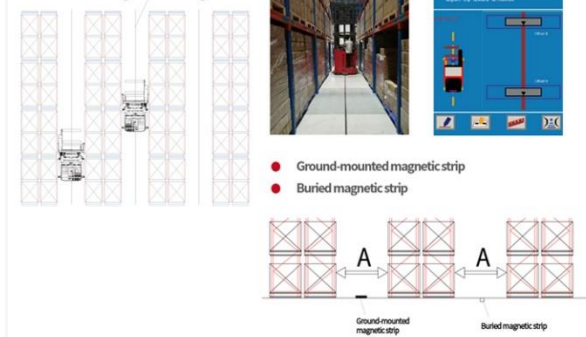
Fork Side Shift Rotation Linkage



The fork moves and rotates simultaneously from the initial position on the left to the initial position on the right, and works efficiently.

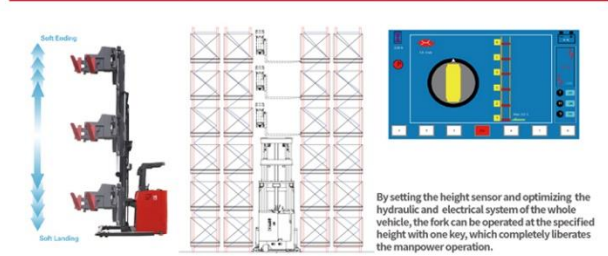
Magnetic navigation

Magnetic navigation

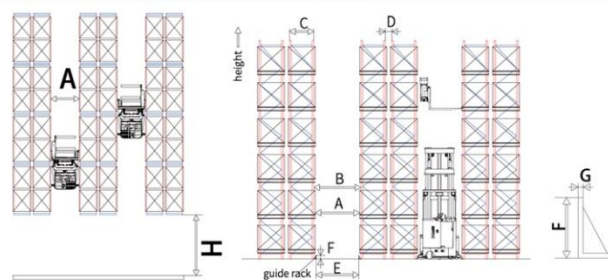


Combined with the three-way forklift with magnetic navigation mode, the adapted shelf does not need the bottom beam, and the goods can be placed directly on the ground. This scheme cancels the construction and installation of bottom beam and ground guide rail in the traditional narrow lane rack scheme, shortens the construction period and reduces the overall cost of the rack system.

Height pre-selection (fork height setting)



Shelf and passage dimensions



Size control table

Installation guideline	MC10				MC15			
Tray size	1000x1000 1000x1200	1100x1100	1200x1200 1000x1200	1000x1000 1000x1200	1100x1100	1200x1200 1000x1200		
Load Center	C500	C550	C600	C500	C550	C600		
Fork length	1000	1070	1200	1000	1070	1200		
A Net channel width/Arrival of goods	1500/1550 (I)	1600/1650 (I)	1700/1750 (I)	1600/1650 (I)				
B Spacing of rack beams	800	800	1000	1000	1100	800	800	1000 1100
C Spacing of beams between shelves	1700	1900	1700	1900	1800	1800	1900	1700 1800 1700
D Shelf Back-to-Back Spacing	≥300	≥400	≥200	≥300	≥200	≥300	≥400	≥200 ≥300 ≥200
H Main channel width	≥3600	≥3700	≥3800	≥3700	≥3800	≥3900		
E Inside distance of guide rail		1480			1580			
F Guide rail height		100-140			100-140			
G Guide rail thickness		≥10			≥10			

Remarks: (1) stand for magnetic navigation shelf net channel width.