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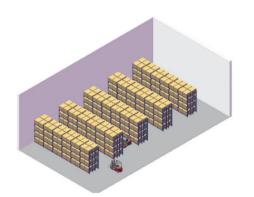
3-WAY PALLET STACKER

SEATED TYPE

MCA16



Super-high storage capacity, Super-narrow aisle



counterbalance forklift

less pallet space

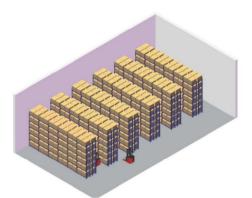
large rack width(about 4M)

low rack height(about 5M)

high cost per pallet position



Counterbalance Forklift



reach truck

compared with counterbalance forklift

80% increase in the number of pallet positions

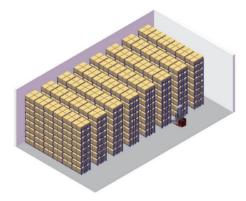
rack height increased by 40% (about 7.5M)

aisle width reduced by 25%(about 3M)

40% reduction in the cost of a single pallet with the same storage area



Reach Truck



VNA 3-way Pallet Stacker

VNA 3-way pallet stacker

compared with counterbalance forklift

200% increase in the number of pallet positions

rack height increased by 100%(up to 12M)

55% reduction in aisle width(down to 1.6M)

60% reduction in the cost of a single pallet with the same storage area





SEATED TYPE 3-WAY PALLET STACKER MCA16

Model: MCA16

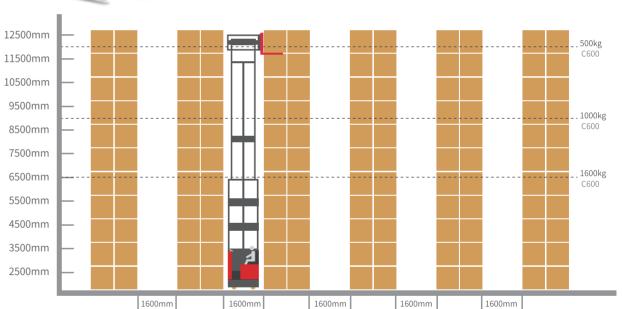
Rated Capacity: 1600kg

Max. Lifting Height: 12000mm Min. Stacking Aisle: 1600mm Driving Mode: seated type

Driving wode. scate

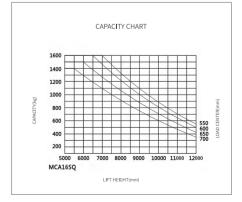


C=1/2*L L: pallet length C: load center





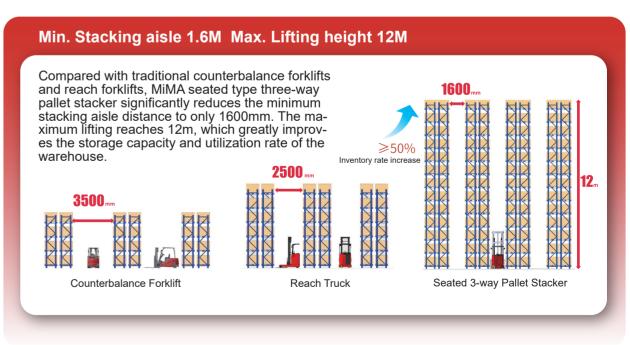


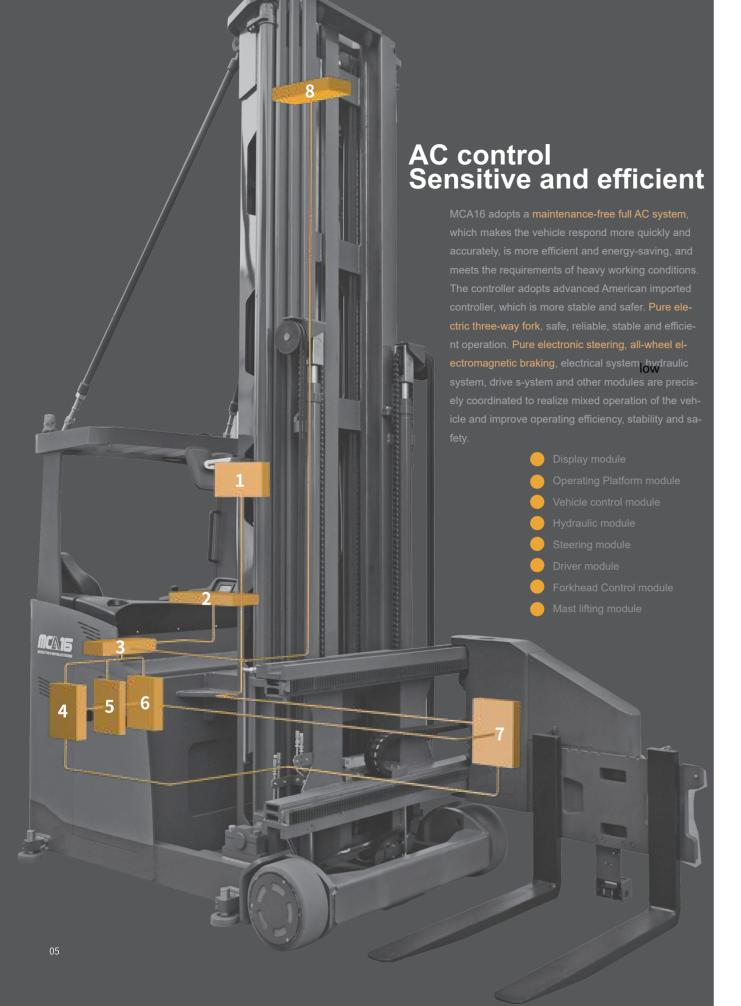


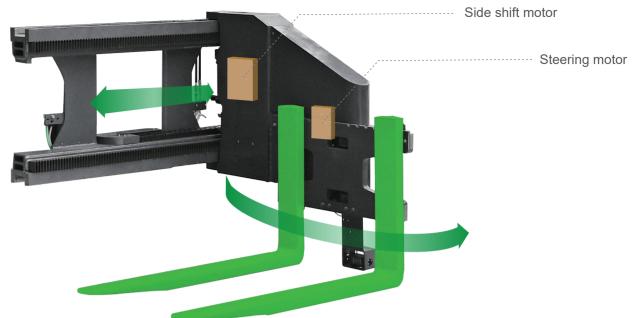
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Fork left and right side shift + 180° rotation The fork has left and right side shift and 180% rotation function the roadway, the goods on the left and right racks can be pickedand placed by the rotation and lateral movement of the fork, and theforklift does not need to turn, which greatly reduces the stacking aisleand improves the storage capacity of the warehouse. Left and right side shift 180° rotation







Electric fork

Compared with the traditional hydraulic drive fork head, the electric fork head has the following advantages: reduce energy consumption, improve vehicle endurance, reduce system heat, and improve vehicle reliability: motor-driven fork head structure, no need for oil pipes, motor maintenance-free, no Hydraulic oil and other media that pollute the environment have a high degree of cleanliness; the design uses a low-noise geared motor without noise pollution; improves the controllability and precision of rotation and side shifting, improves the stability of fork rotation and side shifting, and reduces the time for stacking goods. The amo-unt of shaking of the mast can be improved to improve the performance of the whole vehicle. The bridge frame of the electric fork head is designed to be narrower, and the safety distance of the aisle is larger.

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Low energy consumption

Compared with the hydraulic fork head, the energy consumption is reduced by about 80%, and the energy consumption of the whole vehicle is reduced by 20%.



More stable

Improve the stability of the fork and reduce shaking



Low noise

Low noise geared mot



Pollution-free

No oil pipe required, motor maintenance-free

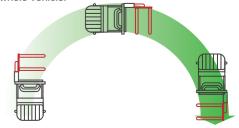
All-wheel electromagnetic brake

All-wheel electromagnetic brake, equipped with front wheel & rear wheel brake, compared with ordinary brake, has shorter braking distance, better braking effect, and safer operation for the operator.



Pure electronic steering system

The pure electronic steering system has lower energy consumption and high control precision, which can reduce the energy consumption of the whole vehicle, make the control more precise and efficient, and ensure the performance of the whole vehicle.



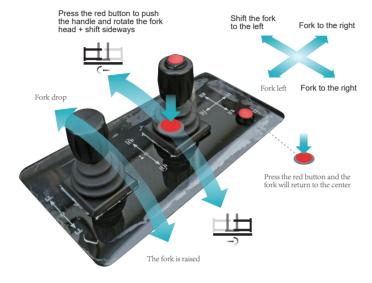
MiMA

The operation of the operator mainly depends on the hands, eyes and feet. Reasonable ergonomic design, comfortable and convenient, MCA16 can improve work efficiency and reduce fatigue. The electric proportional handle controls the movement of the cargo fork, which is accurate and sensitive, simple and fast operation. The steering wheel controls the steering of the vehicle, and the full AC maintenance-free electronic system makes the response faster. All-wheels electromagnetic braking, the braking distance is shorter and safer.

The field of view is also an important factor in the efficiency of the operationMCA16 unique narrow mast and open slide mast design, no matter in the driving or at the high loading and unloading of goods, have a good vision, the vehicle is also equipped with cargo fork video system and wheel display function, convenient operator observation, improve work efficiency.

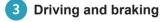


Handle operation, efficient and fast, easy to operate Function easy to operate, improve work efficiency



2 Steering control handle





All-wheel electromagnetic braking, equipped with front wheel and rear wheel braking, better braking effect, safer operation





Comfort and safety improve efficiency

With the MCA16, the operator is sure to experience the operating comfort and efficiency of the cab. Suspension seat, the seat can be the whole forward or backward and the backr-est can be adjusted, which improve the operator comfort and reduce the operation fatigue strength. When step on the foot switch, the vehicle will drive. The design ensure the safety of the vehicle and the driver. The vehicle is also equipped with a fork video system to provide a good view when working high. The combination of warning lights and rear view mirrors is convenient to display the position of the forklift truck, observe the surrounding working conditions, and provide more vehicle position information for the operator to ensure safety and efficiency.

Warning light group

Warning light group indicates the vehicle position to ensure safety

Rear view mirror assembly

Convenient observation of vehicle conditions to ensure safety and improve efficiency



Suspension seat

The seat can be adjusted forward and backward, and the backrest can be adjusted to improve operator comfort and reduce fatique



Foot switch

Ensure the safety of the vehicle, step on the foot switch, to drive the vehicle



Superior vision and precise positioning

Narrow door frame design and open slide frame design ensure that the driver still has a good vision when operating at high level, convenient to observe the fork and cargo position, improve safety and efficiency.



Narrow frame design Superior vision



Open slide frame High operation field is good



Fork video system

The fork video system ensures that the three-way forklift truck still has a good vision and maneuverability when working at the high level. The high-definition camera is installed at the root of the fork, and the cross laser is positioned accurately. The driver can clearly observe the position of the cargo through the high-definition display, improving efficiency and safety.



Driving wheel display

Equipped with driving wheel Angle display function, display driving wheel Angle, easier to operate.



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Mechanical **Guide Rail Mode**

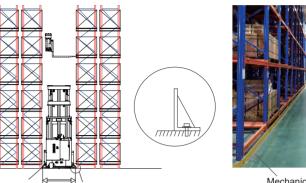
Install crossbeams at the bottom of the shelves and guide rails on the ground inside the aisle. Vehicles can travel efficiently and safely along the track in the aisle.

Mechanical guide rail roadway mode

There is no need to operate the steering wheel inside the aisle The lifting and moving can be operated synchronously, which improves work efficiency.

Low rail guidance mode (optional)

The rail height is 50mm/40mm. The bottom goods can be directly placed on the ground without adding crossbeams.

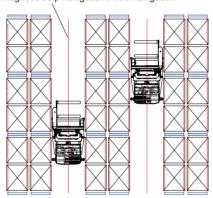


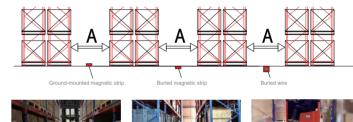


Mechanical Guide

Magnetic navigation
Saving the bottom crossbeams, goods can be directly placed on the ground without installing ground guide rails, which reduces warehouse construction costs.

Magnetic strip navigation / wire navigation

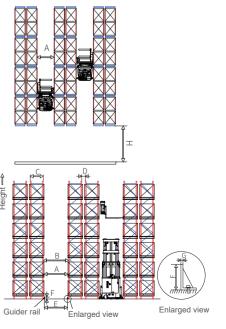




Dimension Sheet

Mode		MCA16							
Pallet Size	1000×1000 1000×1200	1100×1100	1200×1200 1000×1200						
Load Center	C500	C550	1000×1200 C600 1200						
Fork Length	1000	1100							
A Net width of aisle /goods to goods	1600/1650 ⁽¹⁾								
B The beam spacing between the rack		1800/1850 (1)							
C Net deeps of rack	800	800 900							
D Rack spacing		≥300							
H Main aisle width		4300/4800 ⁽¹⁾							
E Inner side of the rail	1580 ⁵ 5								
F Rail height		≥100							
G Rail thickness		≥10							





Stand			
	Manufacturer		MiMA
	Model		MCA16SQ
	Power Type		Battery
	Driving Style		Seated
	Rated Load	Q(kg)	1600
	Load Center	C(mm)	600
1.7	Front Overhang	x(mm)	860
1.8	Wheelbase	y(mm)	1800
Weigh	nt		
2.1	Service Weight(incl.battery)	kg	6000
Whee	l .		
3.1	Wheel Type		PU
	Load Wheel Size	mm	φ343×150
3.3	Drive Wheel Size	mm	φ400×160
3.4	Number of wheel, front/rear(x=drive wheel)		2 / 1X
	Wheel tread, Load side	b11(mm)	1315
Size			
4.1	Mast Closed Height	h1(mm)	2765
	Free Lift Height	h2(mm)	1670
4.3	LIFT Height	h3(mm)	4500
4.4	Mast Extened Height with Load Backrest	h4(mm)	5650
	Overhead Guard Height	h6(mm)	2250
	Stand on Height	h7(mm)	600
	Overall Length	l1(mm)	3330
	Overall Width	b1(mm)	1575[1]
	Fork Size	l/e/s(mm)	1200/125/50
	Installation Level		II B
	Fork Outside Width	b5(mm)	265~765
	Min. ground Clearance	m1(mm)	80
	Aisle Width for pallet 1200x1200mm	Ast(mm)	1600[2]
	Turning Radius	Wa(mm)	2080
	Main Aisle Width for pallet 1200x1200mm	mm	≥(3900+400)[3]
Funct			>(33001400)[3]
	Driving Speed (Load/Unload)	lem /h	0/0
			8/8
	Lifting Speed(Load/Unloaded)	mm/s	300/300
	Lowering Speed(Load/Unloaded)	mm/s	340/340
	Max. gradeability(Unload)		8%
	Driving Brake Method		Regenerative brake/Hydraulic brake
	Parking Brake Method		Electromagnetic brake
Drive			
	Driving Motor Power(S2-60min)	kw .	8 AC
6.2	Lifting Motor Power(S3-15%)	kw	15 AC
	Lead Acid Battery, voltage/capacity	V/Ah	48/600[4]
6.3	Battery Weight	kg	945
6.3 6.4		kg	945 Electric power steering
6.3 6.4	Battery Weight Steering System	kg	

Mast Specification (Free Triplex Mast)

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Model	MCA	16SQ-45	16SQ-50	16SQ-55	16SQ-60	16SQ-65	16SQ-70	16SQ-75	16SQ-80	16SQ-85	16SQ-90	16SQ-95	16SQ-100	16SQ-105	16SQ-110	16SQ-115	16SQ-120
Lift Height	h3(mm)	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000
Mast extended height with load-backrest	h4(mm)	5650	6150	6650	7150	7650	8150	8650	9150	9650	10150	10650	11150	11650	12150	12650	13150
Mast Closed Height	h1(mm)	2765	2935	3100	3265	3435	3600	3765	3935	4100	4265	4435	4600	4765	4935	5100	5265
Free Lift Height	h2(mm)	1670	1830	2000	2170	2330	2500	2670	2830	3000	3170	3330	3500	3670	3830	4000	4170

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