

**MiMA**<sup>®</sup>

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Website

## 3-WAY PALLET STACKER

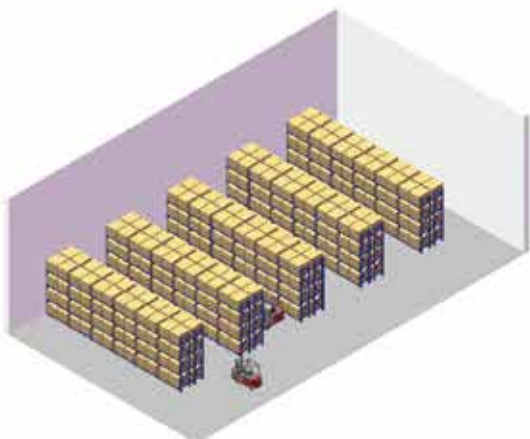
MCA15(Seated)

**MiMA**<sup>®</sup>

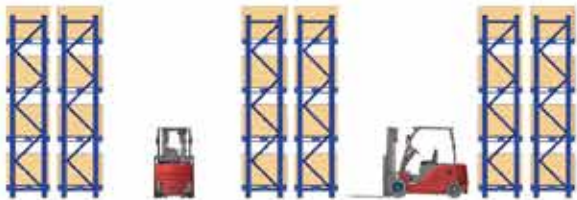
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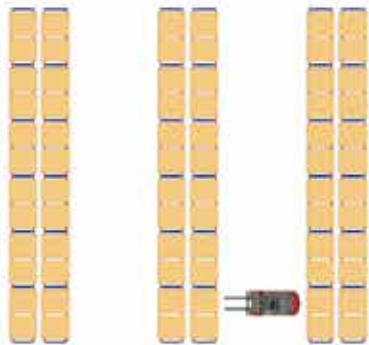




ELECTRIC COUNTERBALANCE FORKLIFT



Rack height 5.0m



Stacking aisle 3.8m

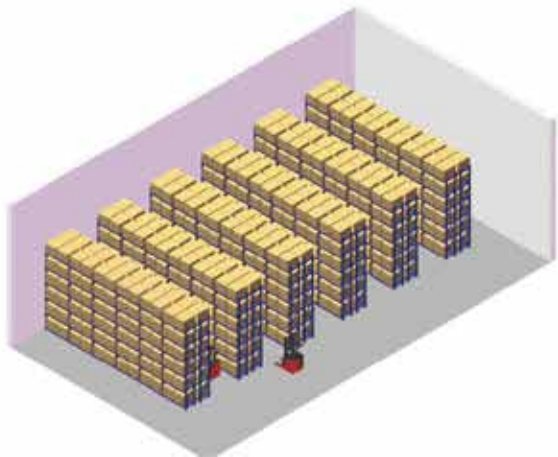
Counterbalanced forklift

Less pallets position

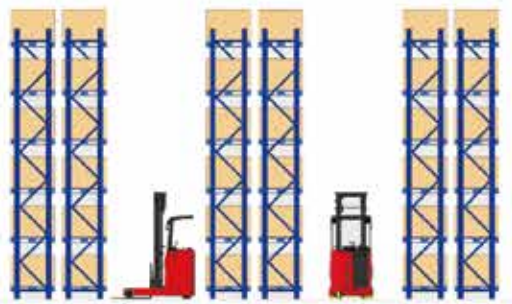
Wider stacking aisle

Lower rack height

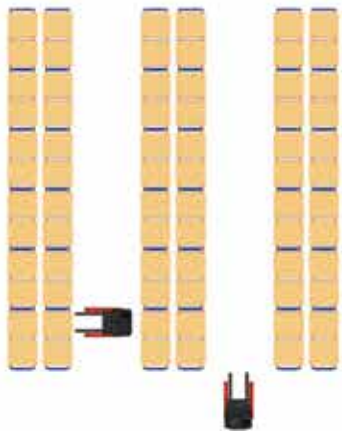
Higher unit pallet cost



ELECTRIC REACH TRUCK



Rack height 7.0m



Stacking aisle 2.8m

Vs counterbalanced forklift

Pallet position is increased by 80%

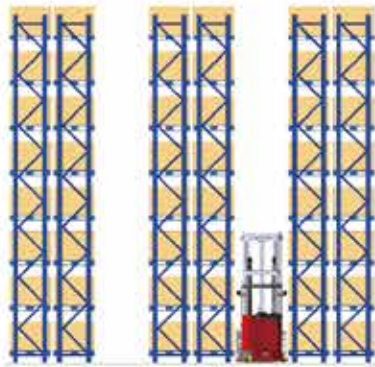
Rack height is increased by 40%

Stacking aisle width is reduced by 25%

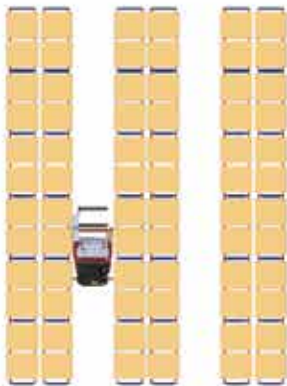
Single pallet position cost is reduced by 40%



3-WAY PALLET STACKER (VNA)



Rack height 10m



Stacking aisle 1.6m

Vs counterbalanced forklift

Pallet position is increased by 200%

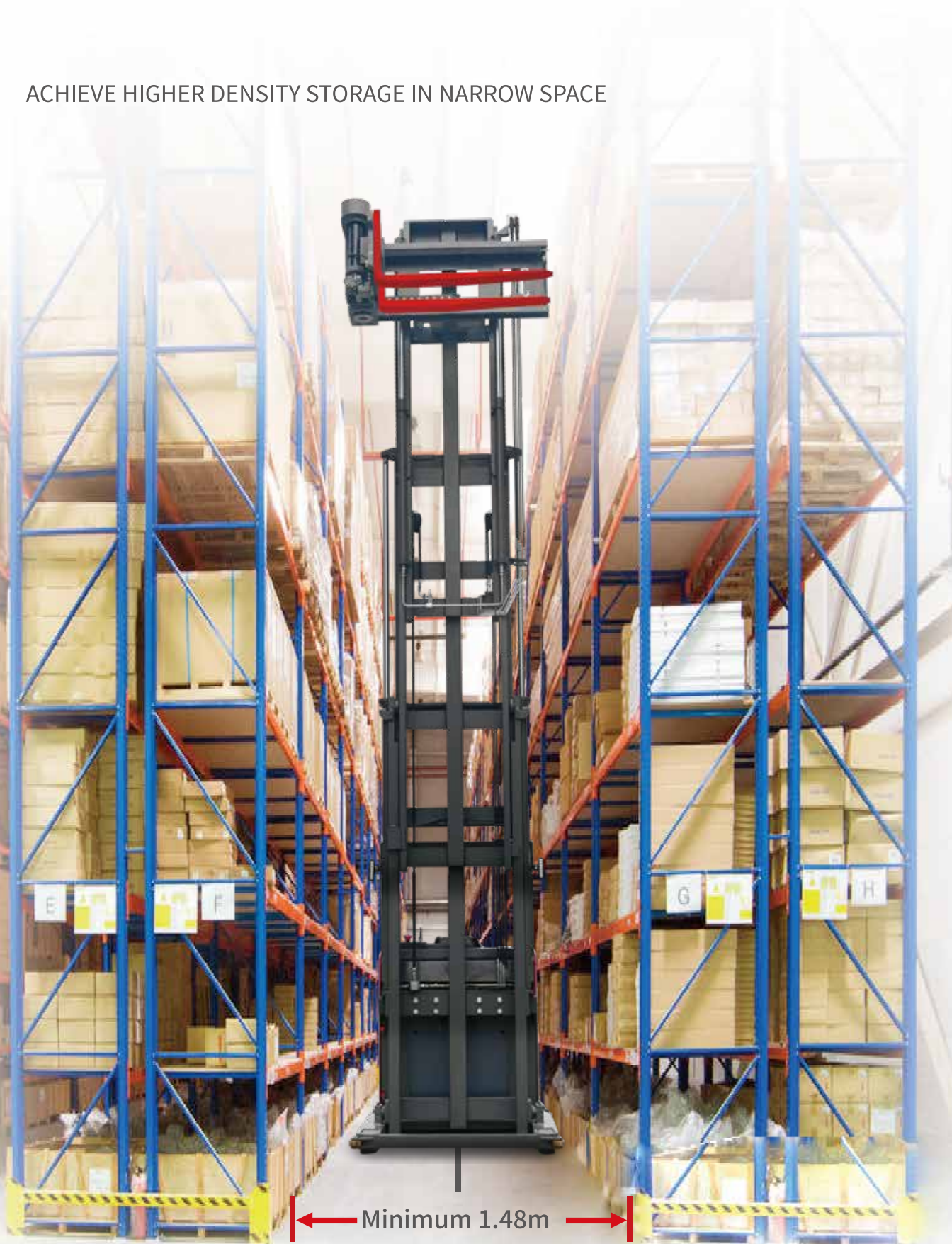
Rack height is increased by 100%

Stacking aisle width is reduced by 55%

Single pallet position cost is reduced by 60%



## ACHIEVE HIGHER DENSITY STORAGE IN NARROW SPACE



MC series is 3-way VNA forklift designed for high-level storage, which is divided into stand-on and seated model with 3m to 10m lifting height. This forklift can load/unload in very narrow aisle without turning body, mainly through fork 180° rotation and side shifting.



MCA15

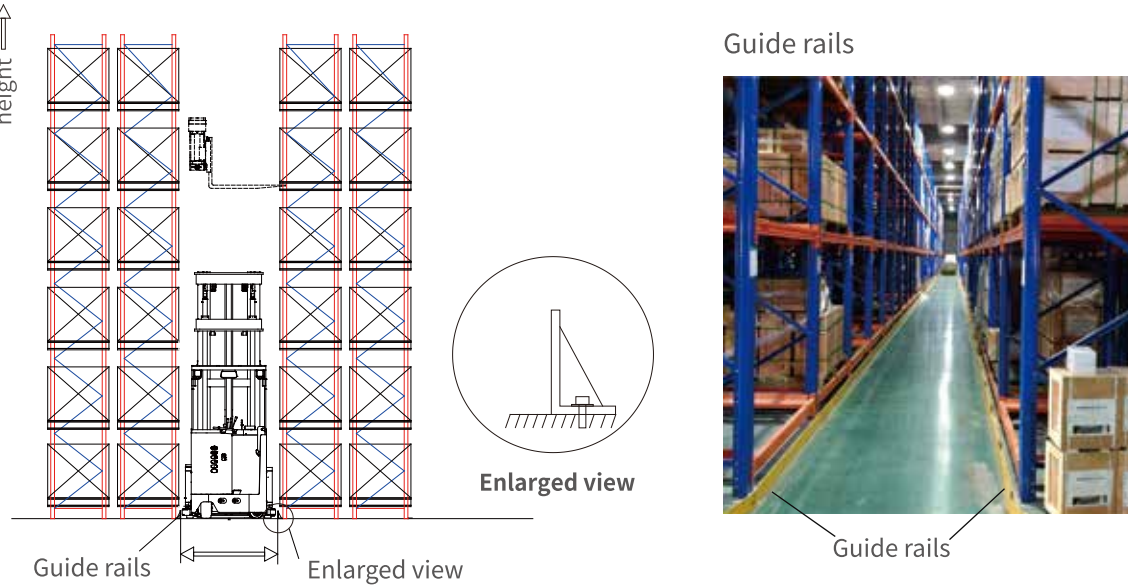
seated



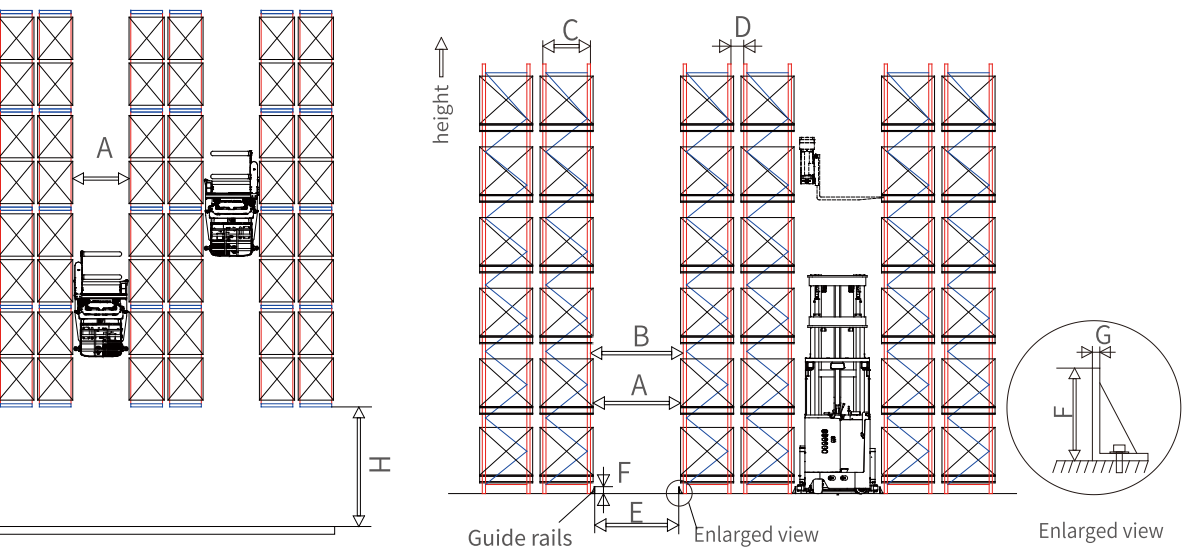


Normal Mode

Beams are installed at the rack bottom and guide rails are installed on the aisle ground, the forklift travels along the rail in the roadway, which is efficient and safe.

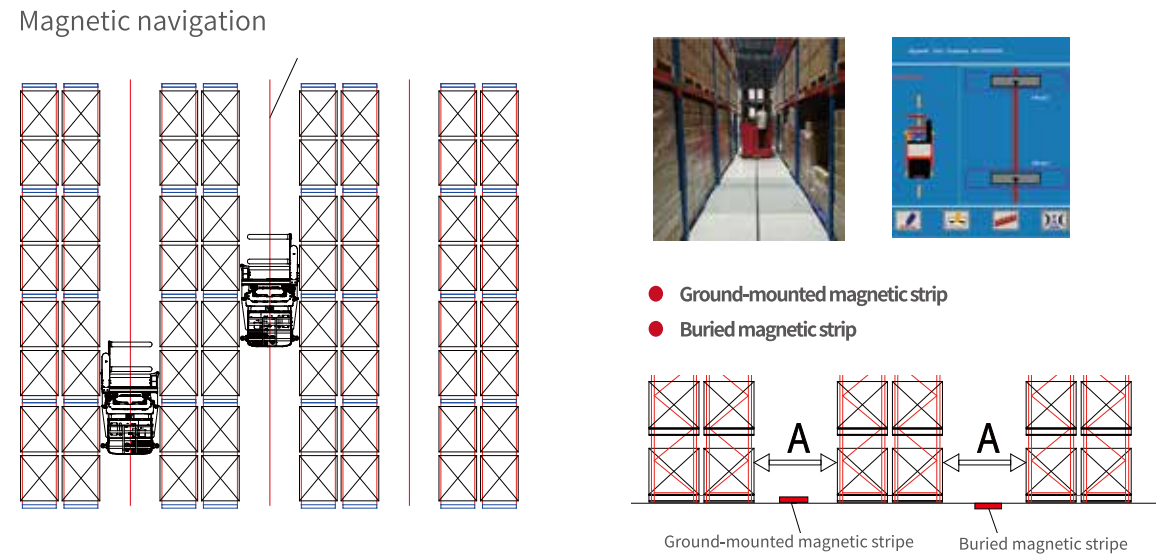


RACK AND AISLE DIMENSION



Magnetic Navigation Mode

Goods can be placed on the ground directly with magnetic navigation mode. No need to install the guide rail and beams for the first layer, reduce the cost of warehouse construction!



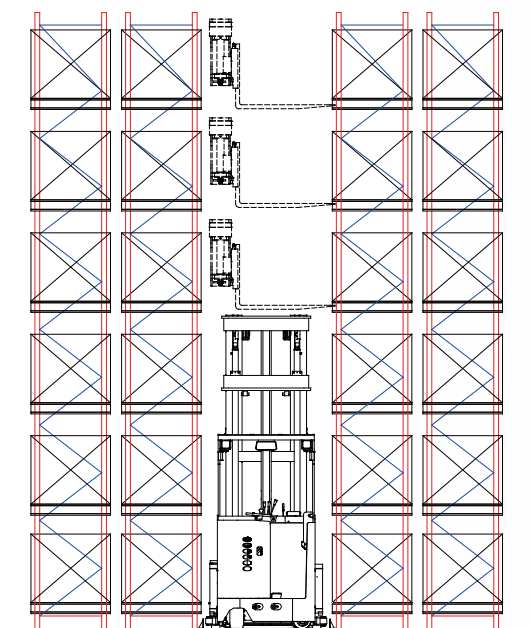
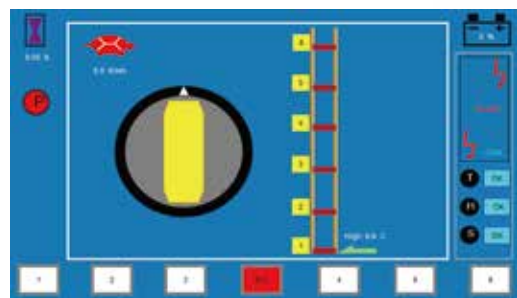
SIZE TABLE

Installation guideway	MCA 15				
Pallet size	1000×1000 1000×1200	1100×1100		1200×1200 1000×1200	
Load center	C500	C550		C600	
Fork length	1000	1070		1200	
A Net aisle width/Arrival of goods	1600/1650 <sup>(1)</sup>				
B Rack to Rack	1800	1900	1700	1800	1700
C Rack depth	800	800	1000	1000	1100
D Back to back distance of rack	≥300	≥400	≥200	≥300	≥200
H Main aisle width	≥4400	≥4400		≥4400	
E Inner distance between guide rail	1580±5				
F Guide rail height	100-140				
G Guide rail thickness	≥10				

Remarks: It is the net aisle width of magnetic navigation mode with label(1)

## HEIGHT PRE-SELECTION

By setting the height sensor and optimizing the hydraulic and electrical system of the whole vehicle, the fork can reach at the specified height with one button operation, which completely liberates the man power operation.



## SEMI-AUTOMATIC/AGV

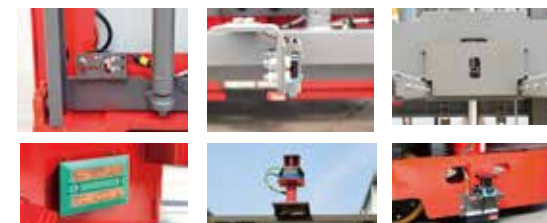


### Semi automatic guided vehicle

Provide the most suitable semi-automatic guided solution according to the customer's working conditions; gradually meet the customer's full automation needs on demand.

### Fully automated AGV

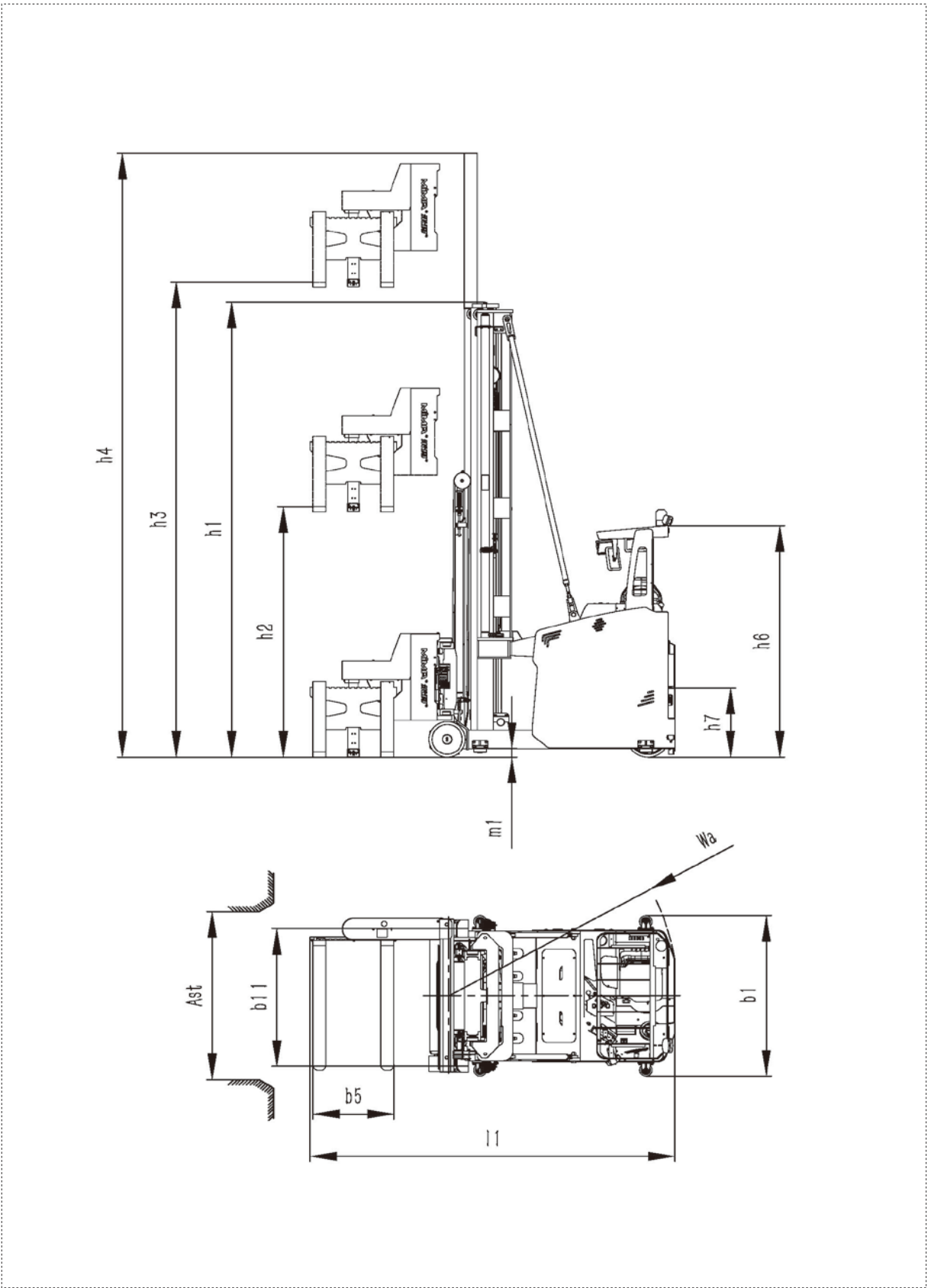
AGV model supports magnetic navigation, laser navigation, and hybrid navigation modes to meet various operating conditions.





Standard		
1.1	Brand	MIMA
1.2	Model	MCA15 (Triplex full free mast)
1.3	Power type	Battery
1.4	Operation type	Seated
1.5	Rated capacity	Q(kg)1500
1.6	Load center	C(mm)600
1.7	Front overhang	x(mm)887
1.8	Wheelbase	y(mm)1900
Weight		
2.1	Service weight(incl. battery)	kg6345
Wheel		
3.1	Wheel type	PU
3.2	Load wheel	mmφ343×150
3.3	Drive wheel	mmφ400×160
3.4	Number of wheels, front/rear(x=drive wheel)	2 / 1X
3.5	Wheel tread, load side	b11(mm)1315
Size		
4.1	Mast closed height	h1(mm)2884
4.2	Free lift height	h2(mm)1734
4.3	Lift height	h3(mm)4500
4.4	Mast extended height with load-backrest	h4(mm)5700
4.5	Overhead guard height	h6(mm)2230
4.6	Stand board height	h7(mm)665
4.7	Overall length	l1(mm)3450
4.8	Overall width	b1(mm)1550
4.9	Fork size	l/e/s(mm)1200 / 125 / 50
4.10	Installation level	II B
4.11	Fork outside width	b5(mm)270 ~ 780
4.12	Min. ground clearance	m1(mm)80
4.13	Aisle width for pallet 1000*1000mm/1200*1200mm	Ast(mm)1600 <sup>[1]</sup>
4.14	Turning radius	Wa(mm)2180
Function		
5.1	Driving speed(load/unload)	km/h8/8
5.2	Lifting speed(load/unload)	mm/s300/300
5.3	Lowering speed(load/unload)	mm/s340/340
5.4	Max. gradeability(unload)	8%
5.5	Driving brake type	Regenerative brake/hydraulic brake
5.6	Paking brake type	Electromagnetic brake
Drive		
6.1	Driving motor(S2-60min)	kw8 AC
6.2	Lifting motor(S3-15%)	kw15 AC
6.3	Battery voltage/capacity	V/Ah48/900
6.4	Battery weight	kg1380
6.5	Steering system	EPS
Other		
7.1	Battery replacement type	Side pull

[1]Optional with magnetic guidance model,the stackign aisle width 1650mm



Mast specification	MCA15												
Triplex full free mast													
Model	MCA	15-45	15-50	15-55	15-60	15-65	15-70	15-75	15-80	15-85	15-90	15-95	15-100
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
Mast extended height with load-backrest	h4(mm)	5700	6200	6700	7200	7700	8200	8700	9200	9700	10200	10700	11200
Mast closed height	h1(mm)	2884	3054	3219	3384	3554	3719	3884	4054	4219	4384	4554	4719
Free lift height	h2(mm)	1734	1894	2064	2234	2394	2564	2734	2894	3064	3234	3394	3564

