



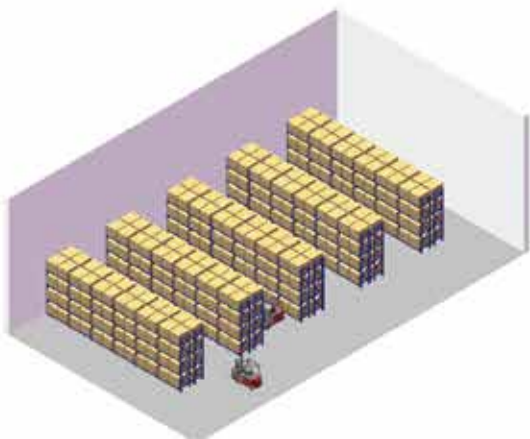
3-WAY PALLET STACKER

MC10/15(Stand-on)
MCA15(Seated)

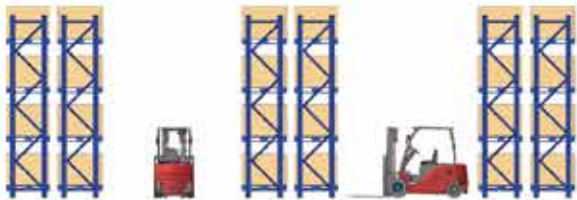
INTERTRAC

www.carretillasintertrac.com

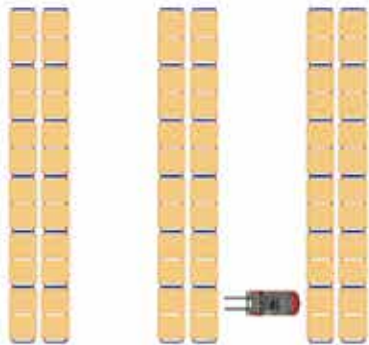




ELECTRIC COUNTERBALANCE FORKLIFT



Rack height 5.0m



Stacking aisle 3.8m

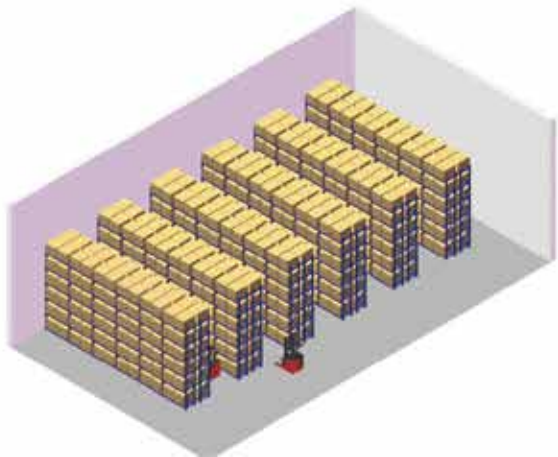
Counterbalanced forklift

Less pallets position

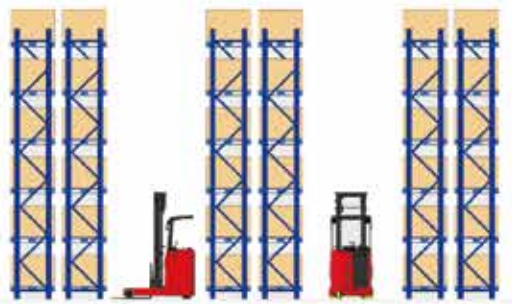
Wider stacking aisle

Lower rack height

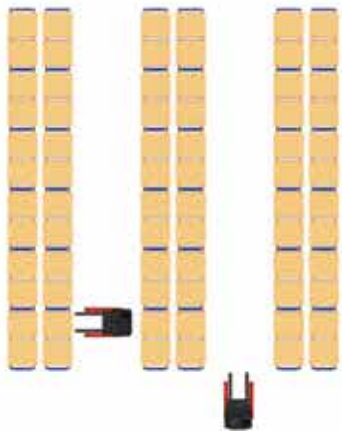
Higher unit pallet cost



ELECTRIC REACH TRUCK



Rack height 7.0m



Stacking aisle 2.8m

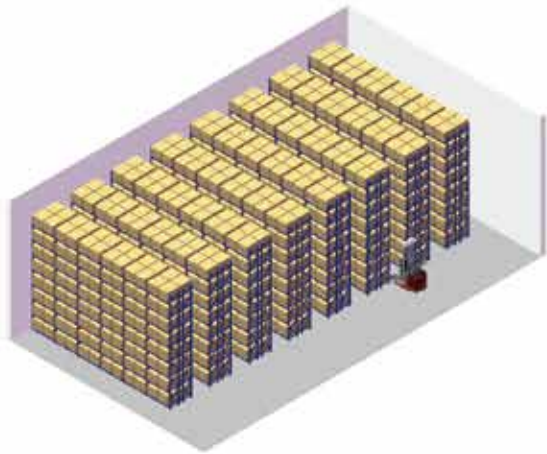
Vs counterbalanced forklift

Pallet position is increased by 80%

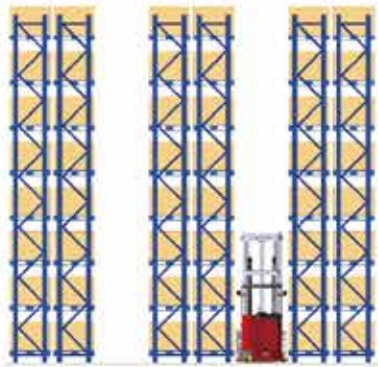
Rack height is increased by 40%

Stacking aisle width is reduced by 25%

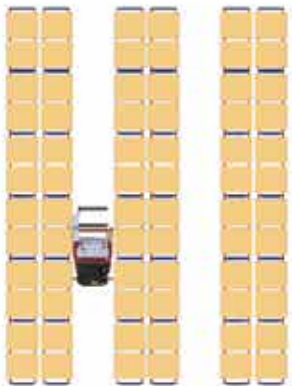
Single pallet position cost is reduced by 40%



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.



MC10/MC15

stand-on

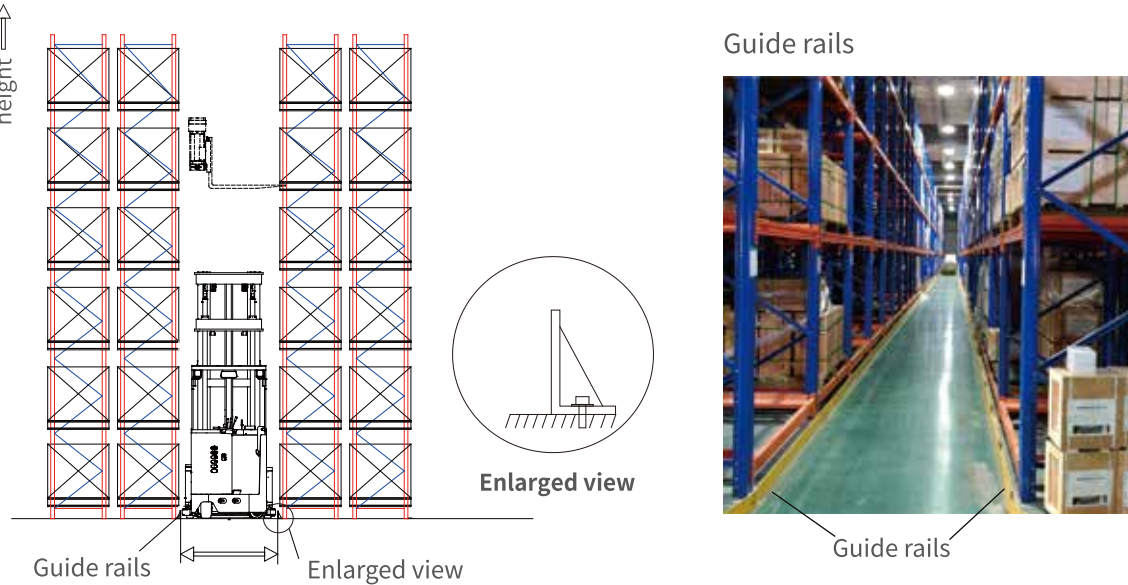
MCA15

seated

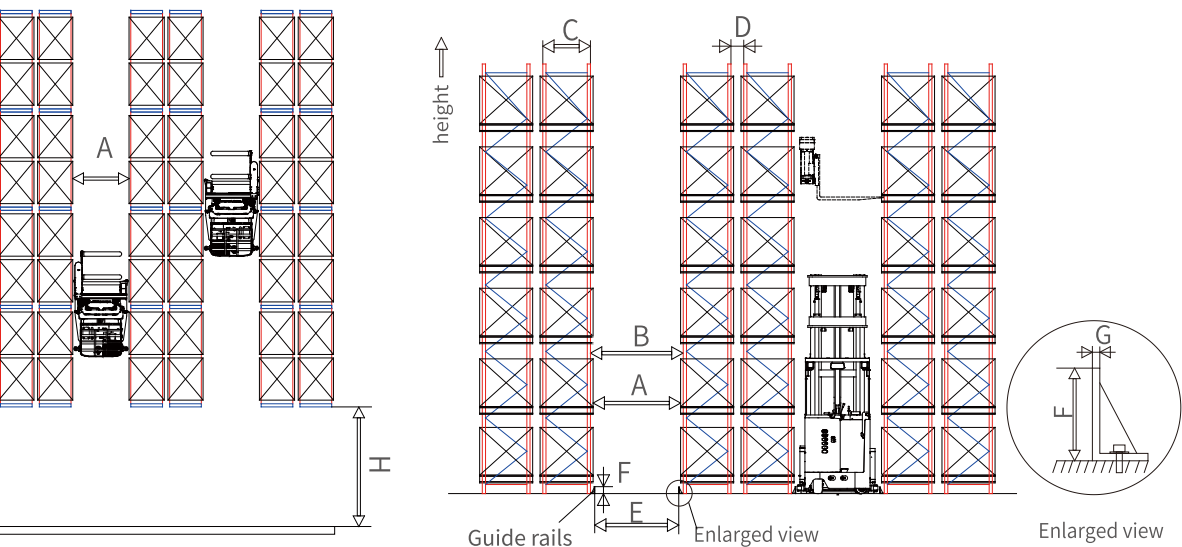


Normal Mode

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.



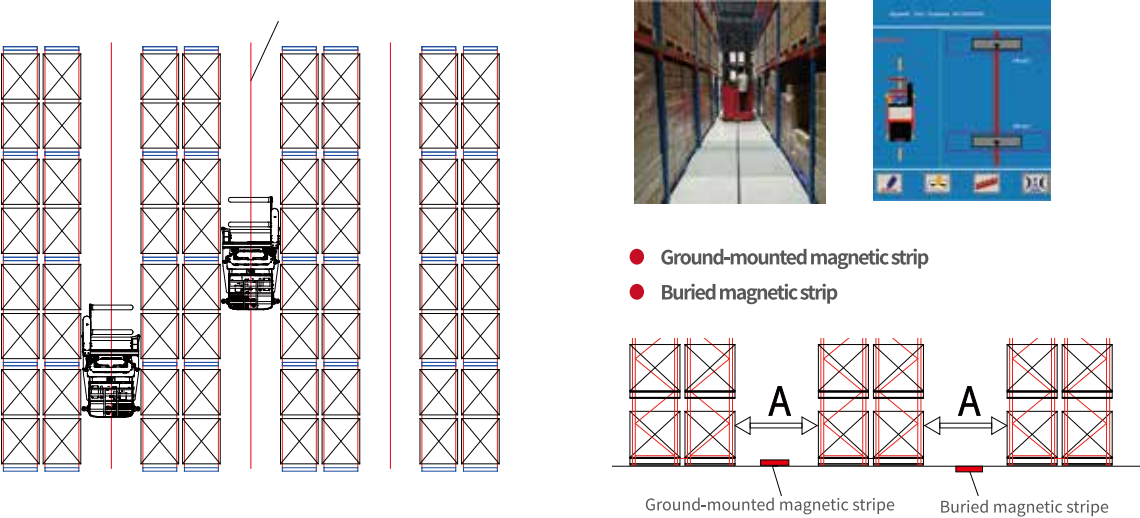
RACK AND AISLE DIMENSION



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!

Magnetic navigation



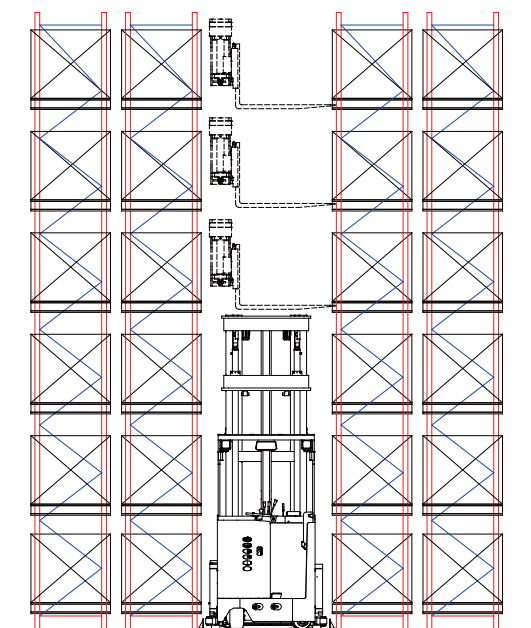
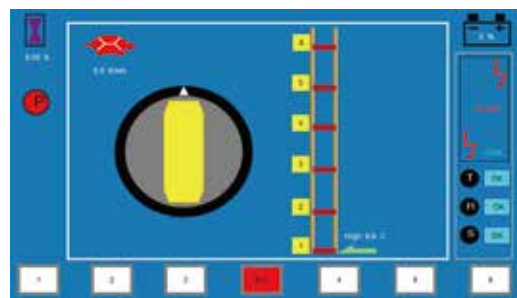
SIZE TABLE

Installation guideway	MC10					MC15				
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	1070		1200		1000	1070		1200	
A Net aisle width/Arrival of goods	1500/1550 (1)	1600/1650 (1)		1700/1750 (1)		1600/1650 (1)				
B Rack to Rack	1700	1900	1700	1900	1800	1800	1900	1700	1800	1700
C Rack depth	800	800	1000	1000	1100	800	800	1000	1000	1100
D Back to back distance of rack	≥300	≥400	≥200	≥300	≥200	≥300	≥400	≥200	≥300	≥200
H Main aisle width	≥3600	≥3700		≥3800		≥3700	≥3800		≥3900	
E Inner distance between guide rail	1480±5					1580±5				
F Guide rail height	100-140					100-140				
G Guide rail thickness	≥10					≥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

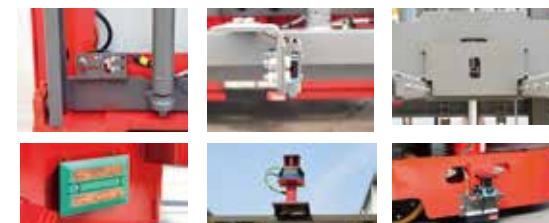


Semi automatic guided vehicle

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.

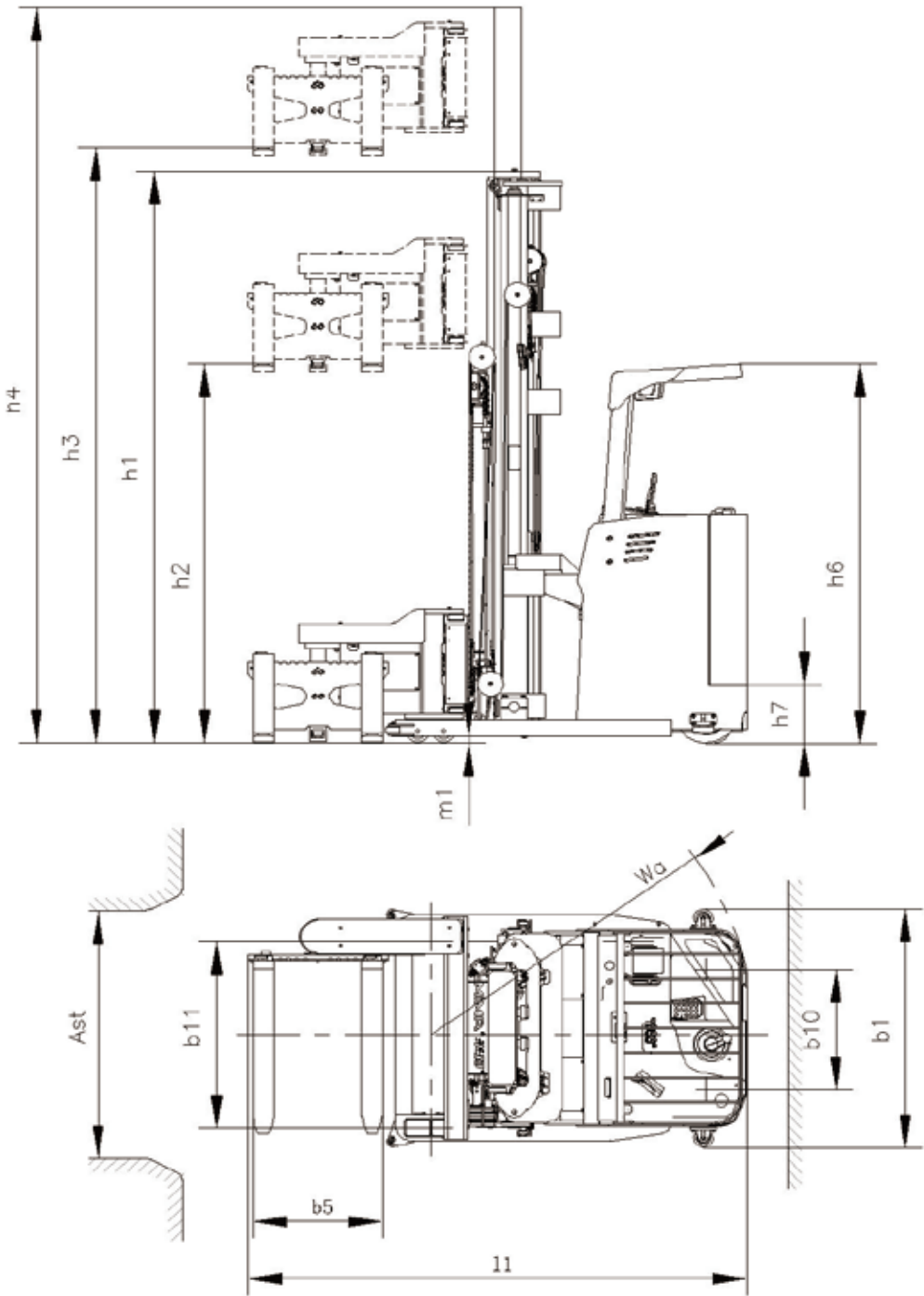
Fully automated AGV

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



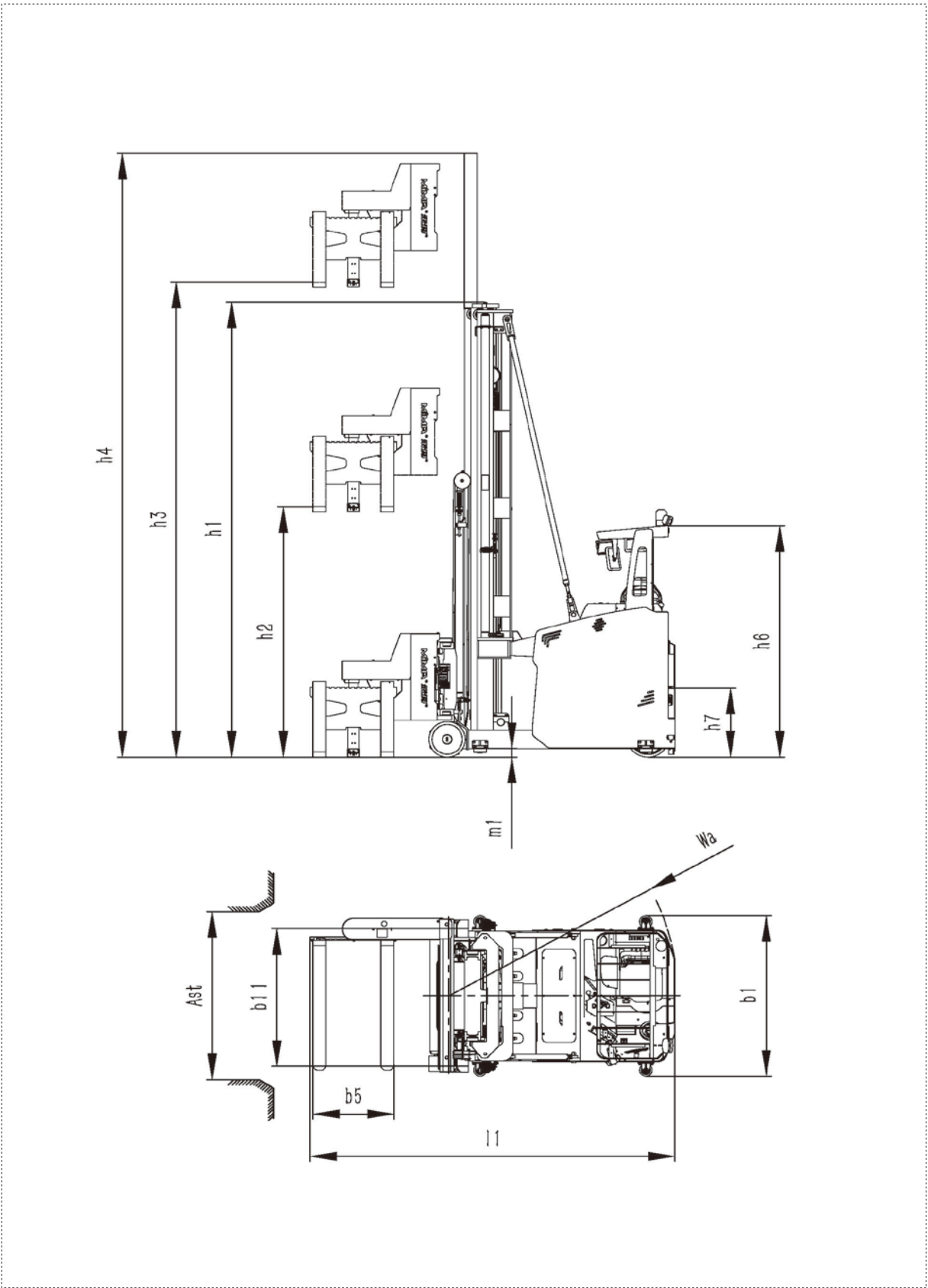
Standard					
1.1	Brand		MiMA	MiMA	MiMA
1.2	Model		MC 10 (Duplex mast)	MC 10 (Triplex full free mast)	MC 15 (Duplex mast)
1.3	Power type		Battery	Battery	Battery
1.4	Operation type		Stand on	Stand on	Stand on
1.5	Rated capacity	Q(kg)	1000	1000	1500
1.6	Load center	C(mm)	500	500	600
1.7	Front overhang	x(mm)	657	657	670
1.8	Wheelbase	y(mm)	1605	1605	1700
Weight					
2.1	Service weight(incl. battery)	kg	4235	4775	4715
2.1	Service weight(incl. battery)	kg	5545		
Wheel					
3.1	Wheel type		PU	PU	PU
3.2	Load wheel	mm	φ140 ×100	φ140 ×100	φ140 ×127
3.3	Drive wheel	mm	φ380 ×165	φ380 ×165	φ380 ×165
3.4	Auxiliary wheel	mm	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
3.6	Wheel tread, drive side	b10(mm)	726	726	726
3.7	Wheel tread, load side	b11(mm)	1210	1210	1280
Size					
4.1	Mast closed height	h1(mm)	2595	2800	2570
4.2	Free lift height	h2(mm)	0	1690	0
4.3	Lift height	h3(mm)	3000	4500	3000
4.4	Mast extended height with load-backrest	h4(mm)	4085	5584	4040
4.5	Overhead guard height	h6(mm)	2260 /2300	2260 /2300	2260 /2300
4.6	Stand board height	h7(mm)	355	355	355
4.7	Overall length	l1(mm)	2906	2906 ^[1]	2985
4.8	Overall width	b1(mm)	1450	1450	1550
4.9	Fork size	l/e/s(mm)	1000 /125/50	1000 /125/50	1200 /125/50
4.10	Installation level		II A	II A	II A
4.11	Fork outside width	b5(mm)	265~760	265~760	265~760
4.12	Min. ground clearance	m1(mm)	40	40	40
4.13	Aisle width for pallet 1000*1000mm	Ast(mm)	1500	1500	1600
4.14	Turning radius	Wa (mm)	1880	1880	1980
Function					
5.1	Driving speed(load/unload)	km/h	7.5/8	7.5/8	7.5/8
5.2	Lifting speed(load/unload)	mm/s	240/290	240/290	260/300
5.3	Lowering speed(load/unload)	mm/s	310/310	310/310	360/390
5.4	Brake type		Mechanical	Mechanical	Mechanical
Drive					
6.1	Driving motor(S2-60min)	kw	5.5 AC	5.5 AC	5.5 AC
6.2	Lifting motor(S3-15%)	kw	8.6 AC	8.6 AC	12.8AC
6.3	Battery voltage/capacity	V/Ah	48/390	48/390	48/480
6.4	Battery weight	kg	650	650	765
6.5	Steering system		EPS	EPS	EPS
Other					
7.1	Battery replacement type		Side pull	Side pull	Side pull

[1] Optional with magnetic guidance model,the stacking aisle width 1550mm,turning radius 1950mm,overall length 2976mm
[2] Optional with magnetic guidance model,the stacking aisle width 1550mm,turning radius 1950mm,overall length 3055 mm



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 ^[1]
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	MC10								
Duplex mast									
Model	MC	10-25	10-30	10-35	10-40	10-45	10-50	10-55	10-60
Lift height	h3(mm)	2500	3000	3500	4000	4500	5000	5500	6000
Mast extended height with load-backrest	h4(mm)	3585	4085	4585	5085	5585	6085	6585	7085
Mast closed height	h1(mm)	2345	2595	2845	3095	3345	3595	3845	4095
Triplex full free mast									
Model	MC	10-45	10-50	10-55	10-60	10-65	10-70	10-75	
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7500	
Mast extended height with load-backrest	h4(mm)	5584	6094	6589	7084	7594	8089	8584	
Mast closed height	h1(mm)	2814	2984	3149	3314	3484	3649	3814	
Free lift height	h2(mm)	1750	1910	2080	2250	2410	2580	2750	

Mast specification		MC15									
Duplex mast											
Model	MC	15-25	15-30	15-35	15-40	15-45	15-50	15-55	15-60		
Lift height	h3(mm)	2500	3000	3500	4000	4500	5000	5500	6000		
Mast extended height with load-backrest	h4(mm)	3540	4040	4540	5040	5540	6040	6540	7040		
Mast closed height	h1(mm)	2320	2570	2820	3070	3320	3570	3820	4070		
Triplex full free mast											
Model	MC	15-45	15-50	15-55	15-60	15-65	15-70	15-75	15-80	15-85	15-90
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
Mast extended height with load-backrest	h4(mm)	5555	6050	6550	7040	7550	8050	8550	9050	9550	10050
Mast closed height	h1(mm)	2817	2987	3152	3317	3487	3652	3817	3987	4152	4317
Free lift height	h2(mm)	1750	1910	2080	2250	2410	2580	2750	2920	3090	3260

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

