

Electric Order Picker

MHA10/MHA13 Series

Max. lift height: 6000/9500mm





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Add: Crossing of Daihe Road and Cailun Road, Hefei, China



Min Space, Max Performance



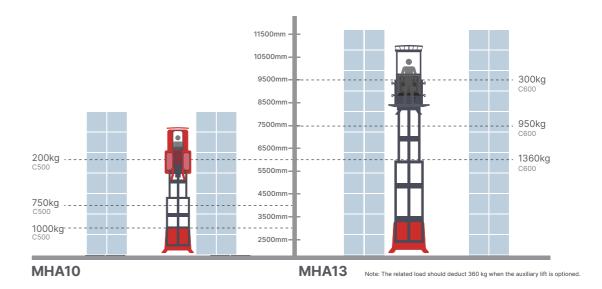






STABILITY AT HEIGHT

MiMA's order pickers **MHA Series** are engineered for optimum picking performance in tight spaces, making them ideal for high-level picking in busy warehouses. It features robust construction, with reinforced cabins and masts that enhance stability, even in the ultra-high position.



EFFICIENT, SAFE, AND ERGONOMIC DESIGN

Operators always have four secure contact points with the vehicle, preventing accidental movement during high-lift operations. With available safety rails, advanced components, smooth proportional control systems, and other safety-focused features, MiMA ensures operators stay productive, comfortable, and secure throughout their shifts.



Smooth

Imported core components, offering superior performance. Proportional lifting system ensures smooth start and stop.



Stable

Ergonomic design and cushioned floor provide enhanced stability and comfort during long shifts.



Fold-up monitored side gates

Only when the side gates are in the monitored state and the foot switch is touched can the vehicle be lifted and driven at a high level, providing safe and easy picking.



Auxiliary lift

Fork can be lifted to a suitable height according to the needs of the operator, more humane, improving work efficiency.

*Auxiliary lift is optional for MHA13 series.

FLEXIBILITY IN PERFORMANCE

MiMA order pickers are available in two capacity options: 1.0 tons and 1.3 tons. The MHA10 Series 1.0-ton model offers a maximum lift height of 6 meters, while the upgraded MHA13 Series 1.3-ton model can lift from 5 to 9.5 meters.

For these models, MiMA has developed two distinct types of cabins. The open cabin, which does not feature an auxiliary lift but provides greater efficiency, is ideal for picking larger and heavier loads. And the closed cabin, which includes an auxiliary lift to eliminate the need for operators to bend over, offers enhanced comfort for users.

MHA13 ▶

Efficiency at Its Best For High-Level Picking

Upgrade to Precision, Power, and Safety in Every Lift

The MHA13 Series is an upgraded version of the MHA series, offering enhanced features and higher performance. It is a Man-up high-level order picker with a 1.36-ton rated capacity and a lift height range from 5.0 to 9.5 meters, reaching to 11.1 meters (and customized higher) for picking. Equipped with a 48V electrical system, full AC motor, and advanced Curtis controller, this model is designed for safe, efficient, and stable high-level picking and inventory tasks in VNA applications.

Key Specs ▶

Operation Scenario

Load Capacity

High-level picking 1360kg (3000lbs)

Lift height

9500mm (374in)

Customized to 12500mm

Picking height

11100mm (437in) Customized to 14100mm



MHA10

Efficiency at Its Best For High-Level Picking

The MHA10 is a high-performance electric order picker, ideal for light-duty indoor warehouse tasks. With a 6-meter lifting height and 7.6-meter picking reach, it handles 1 ton goods easily. Featuring ergonomic design, optional auxiliary lift, proportional control, and safety features like a wheel display and seatbelt, it ensures smooth, safe, and fatigue-free operations.

Key Specs

Operation Scenario

Load Capacity

Mid-level picking

1000kg (2204lbs)

Lift height

Picking height

6000mm (236in)

7600mm (299in)

YOUR ULTIMATE SOLUTION FOR HIGH-PERFORMANCE ORDER PICKING: MHA13

Power and Precision Ensured, Efficiency, Durability, and Comfort Combined.

Powerful Performance, Trusted Durability

- **Upgraded pump motor and gear pump**; Mast lifting speed increased to over 500mm/s, more than 60% faster than the previous model.
- With a sleek design and shorter vehicle width (1070mm) for narrower rack aisles, optimizing storage density and enhancing capacity expansion.
- AC maintenance-free system: Features an AC motor for high efficiency, power, and high durability.

Built for Safety and Confidence

- Equipped with an emergency stop button and speed-limiting functions, ensuring safe operation during high-lift and turning conditions.
- Operators can lean on four secure contact points, offering safety and confidence during high-altitude tasks.
- HD display and lighting provide clear visibility in low-light environments, improving picking safety.



Automatic speed control at high position



Turning speed limit



Lifting speed limit



Comfort in Every Step

- An ergonomically designed platform with cushioned flooring offers a stable working environment with better visibility during extended shifts.
- The auxiliary lift allows operators to adjust the mast height without squatting, reducing fatigue and increasing operational efficiency.
- Featuring a **thumb switch**, enabling seamless control of mast lifting and multiple functions with just one hand—making every task easier.



Adapt to Your Specific Needs

- The high-position load capacity is enhanced with a standard lift height of 9,500mm, offering superior rigidity and strength.
- Mast upgraded with stronger channel steel and crossbeams (MiMA can customize to lift heights to 12,500mm).
- Its open platform design offers greater visibility and room for future upgrades.
- Integrated with a wire guidance system (optional), making it compatible with advanced warehouse automation systems.

Efficiency and Endurance that Drive Success

- Optimized travel speeds improve efficiency, accelerating picking operations and minimizing work time to help you achieve more in less time
- Choose from lead-acid or lithium batteries for fast charging and extended runtime, ensuring up to 8 hours of uninterrupted performance to keep your operations running smoothly and efficiently.
- Powered by batteries (Lithium battery available), our forklifts operate without oil, ensuring a **cleaner and greener solution** for your needs.



STANDARD AND OPTIONAL

A World of Customization, Tailored to Your Needs

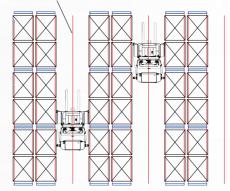
Fork Auxiliary Lift and Open Cabin(Optional)

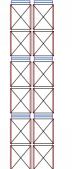


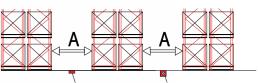
Magnetic guidance/wire guidance(Optional)

No need to install ground guide rail, avoid ground construction and reduce warehouse construction costs.

Magnetic navigation/ wire navigation







Buried magnetic strip Buried wire cable

Other options

not for metering).	Fork option lengths available
Guide rollers	Double side consoles, fork direction/mast direction
Customized fork length	Protective mast guard wire mesh
LED working light	Fan

Note: All the above configurations may involve optional items. Please consult our sales manager before purchasing.

SPECIFICATION

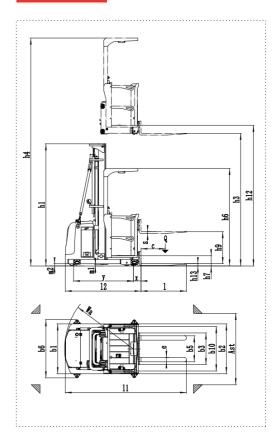
Characte	ristics			
1.1	Manufacturer		MIMA	MIMA
1.2	Model		MHA	MHA
1.3	Model code		MHA10L[1]	MHA10S[1]
1.4	Power type		Electric	Electric
1.5	Operation		Order Picking	Order Picking
1.6	Load capacity	Q(kg)	1000	1000
1.7	Load center distance	C(mm)	500	500
1.8	Front overhang	x(mm)	148	148
1.9	Wheelbase	y(mm)	1410	1410
	Wileelbase	y (ITIITI)	1410	1410
Weights 2.1	Sarvica weight/incl. hattan/)	ka	2490	2830
	Service weight(incl. battery)	kg		
2.2	Axle loading, laden front/rear	kg	940/2550	1130/2700
2.3	Axle loading, unladen front/rear	kg	1410/1080	1610/1220
Wheels				
3.1	Tyre type,front/rear		Polyurethane	Polyurethane
3.2	Tyre size, front	mm	φ150×90	φ150×90
3.3	Tyre size, rear	mm	φ254×102	φ254×102
3.4	Wheels,number front/rear (X=driven)		4/1X	4/1X
3.5	Track width, rear	b10 (mm)	1008	1008
3.6	Track width, front	b11(mm)	0	0
Dimensio	ons			
4.1	Mast retracted height	h1(mm)	Refer to mast parameter	Refer to mast parameter
4.2	Free lifting height	h2(mm)	Refer to mast parameter	Refer to mast parameter
4.3	Lift height	h3(mm)	Refer to mast parameter	Refer to mast parameter
4.4	Mast extended height	h4(mm)	Refer to mast parameter	Refer to mast parameter
4.5	Max. lifting height	h3+h9(mm)	Refer to mast parameter	Refer to mast parameter
4.6	Max. picking height	h12+1600(mm)	Refer to mast parameter	Refer to mast parameter
4.7	Overhead guard height	h6(mm)	2270	2270
4.8	Ground clearance,min height of the operation surface		260	260
4.9	Auxiliary lift height	h9(mm)	670	670
4.10				
	Ground clearance, min height of the operation surface		Refer to mast parameter	Refer to mast parameter
4.11	Ground clearance,Min fork surface	h13 (mm)	70	70
4.12	Overall length	I1(mm)	2825	2835
4.13	Body to fork surface length	I2(mm)	1755	1765
4.14	Overall width	b1/b2(mm)	1150/1150	1150/1150
4.15	Fork dimensions	I/e/s(mm)	1070/100/40	1070/100/40
4.16	Fork rack width	b3(mm)	730	730
4.17	Fork outside spread	b5(mm)	700~220	700~220
4.18	Width over guide rollers	b6(mm)	1336	1336
4.19	Ground clearance below mast	m1(mm)	50	50
4.20	Ground clearance, body	m2(mm)	50	50
4.21	Aisle width	Ast(mm)	1750[2]	1750[2]
4.22	Turning radius	Wa(mm)	1625	1625
4.23	Main aisle width	mm	≥(2920+400)[3]	≥(2930+400)[3]
Performa	ince			
5.1	Travelling speed, laden/unladen	km/h	6/6	6/6
5.2	Lift speed, laden/unladen	mm/s	115/140	115/140
5.3	Lowering speed, laden/unladen	mm/s	165/125	165/125
5.4			105/125	103/123
	Maximum gradient, laden/unladen	%(tanθ)	•	,
5.5	Traveling Brake		Regenerative braking / electromagnetic braking	Regenerative braking / electromagnetic braking
5.6 Drives	Service brake		Electromagnetic	Electromagnetic
Drive				
6.1	Drive motor, rating S2=60	kw	2.5 AC	2.5 AC
6.2	Lift motor, rating S3=15%	kw	3 DC	3 DC
6.3	Battery voltage/nominal capacity	(V)/(Ah)	24/400[4]	24/400[4]
6.4	Battery weight	kg	340	340
Others				
7.1	Type of drive control		AC	AC
7.2	Noise level at operator's ear(EN12053 Standard)		70	70

MAST SPECIFICATION

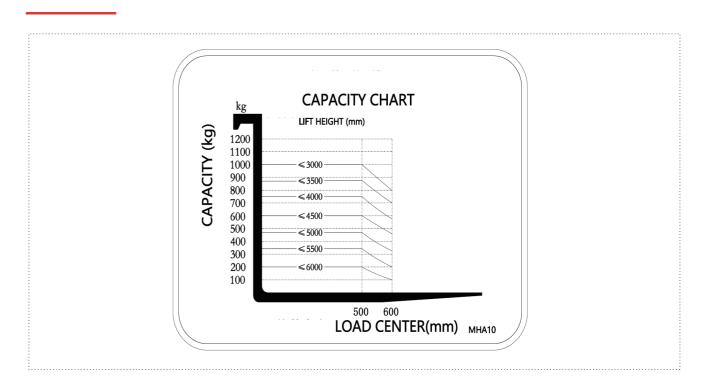
Duplex Mast								
Model	МНА	10-30	10-35	10-40	10-45			
Lift height		2760	3260	3760	4260			
Max. Lifting height		3430	3930	4430	4930			
Max.Picking height		4600	5100	5600	6100			
Mast retracted height		2300	2550	2850	3100			
Mast extended height		5010	5510	6060	6610			
Free Lifting height		0	0	0	0			

Triplex Mast							
Model	МНА	10-40S	10-45S	10-50S	10-55S	10-60S	
Lift height		3760	4260	4760	5260	5760	
Max. Lifting height		4430	4930	5430	5930	6430	
Max.Picking height		5600	6100	6600	7100	7600	
Mast retracted height		2149	2316	2482	2649	2815	
Mast extended height		5955	6455	6955	7455	7955	
Free Lifting height		0	0	0	0	0	

THREE-VIEW DRAWING



CAPACITY CHART



SPECIFICATION

Characteris	stics			
1.1	Brand		MIMA	MIMA
1.2	Product Model		MH-U	MH-U
	Vehicle Model Code		1MH13U-T[1]	1MH13U-H[1]
1.3	Power type		Battery	Battery
1.4	Operation		Picking	Picking
1.5	Load capacity	Q(kg)	1360	1360
1.6	Load center distance	C(mm)	600	600
1.8	Front overhang	x(mm)	277	277
1.9	Wheelbase	y (mm)	1435	1555
Weights				
2.1	Service Weight(incl. battery)	kg	1	1
2.2	Axle loading, laden, front/rear	kg	1	1
2.3	Axle loading, unladen, front/rear	kg	1	1
Wheels				
3.1	Tyre type, front/rear		Polyurethane Tyre	Polyurethane Tyre
3.2	Tyre size, front	mm	φ343×120	φ343×120
3.3	Tyre size, rear	mm	φ152×105	φ152×105
3.5	Wheels number, front/rear (X=driven)		4 / 1X	4 / 1X
3.6	Track width, front	b10 (mm)	918	1368
Dimension	s			
4.2	Mast retracted height	h1(mm)	Refer to the mast specification	Refer to the mast specification
4.3	Free Lift height (standard)	h2(mm)	Refer to the mast specification	Refer to the mast specification
4.4	Lift height	h3(mm)	Refer to the mast specification	Refer to the mast specification
4.5	Mast extended height	h4(mm)	Refer to the mast specification	Refer to the mast specification
	Max. picking height	h12+1600(mm)	Refer to the mast specification	Refer to the mast specification
4.7	Overhead guard height	h6(mm)	2320	2320
4.8	Platform height	h7(mm)	230	230
4.14	Platform height, raised	h12(mm)	Refer to the mast specification	Refer to the mast specification
4.15	Ground clearance, min fork surface	h13 (mm)	70	70
4.19	Overall length	I1(mm)	3178	3298
4.21	Overall width	b1/ b2(mm)	1070/1070	1070/1520
4.22	Fork dimensions	I/e/s(mm)	1220/100/50	1220/100/50
4.25	Fork outside spread	b5(mm)	577、635、693	577、635、693
4.27	Width over guide rollers	b6(mm)	1275	1650
4.31	Ground clearance below mast, laden	m1 (mm)	98	98
4.32	Ground clearance, center of wheelbase, laden	m2(mm)	50	50
4.34	Right angle stacking aisle width (1200×1000)	Ast(mm)	1270[2]	1770[2]
4.35	Turning radius	Wa(mm)	1706	1826
	Main aisle width	(mm)	≥(3280+400)[3]	≥(3400+400)[3]
Performan	ce			
5.1	Travel Speed, laden/unladen	km/h	8/8	10/10
5.2	Lifting Speed, laden/unladen	mm/s	330/350	380/400
5.3	Lowering Speed, laden/unladen	mm/s	350/350	400/400 brak
5.8	Max straight gradeability, laden/unladen	%(tanθ)	5/8	5/8
5.10.1	Service brake		Electromagnetic brake/Regenerative brake	Electromagnetic brake/Regenerative
F 10 0	Parking brake		Electromagnetic brake	Electromagnetic brake
5.10.2				
			6.5 AC	6.5 AC
Drive	Drive motor, rating S2=60	kw	0.5 AC	
Orive 6.1	Drive motor, rating S2=60 Lift motor, rating S3=15%	kw kw	14 AC	14 AC
Drive 6.1 6.2	Lift motor, rating S3=15%	kw	14 AC	14 AC
5.10.2 Drive 6.1 6.2 6.4 Others				
Drive 6.1 6.2 6.4	Lift motor, rating S3=15%	kw	14 AC	14 AC

MAST SPECIFICATION

h2

Free lifting height

MHA13U-H Model MHA13-H 13-95 13-90 13-85 13-80 13-75 Lift height h3 9500 9000 8500 8000 7500 Mast picking height h28 11260 10760 10260 9760 Mast retracted height 4084 3918 3751 3584 Mast extended height 11750 11250 10750 10250 9750

1764

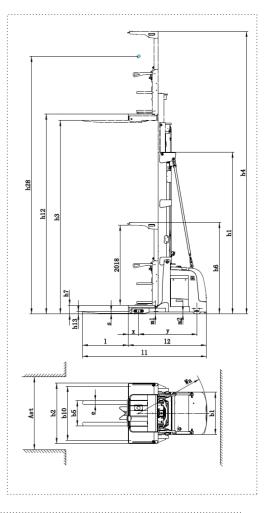
1589

1431

1264 1098

MHA13U-T								
Model	MHA13-T	13-70	13-65	13-60	13-55	13-50		
Lift height	h3	7000	6500	6000	5500	5000		
Mast picking height	h28	8760	8260	7760	7260	6760		
Mast retracted height	h1	3251	2988	2818	2653	2488		
Mast extended height	h4	9250	8750	8250	7750	7250		
Free lifting height	h2	931	668	498	333	168		

THREE-VIEW DRAWING



CAPACITY CHART

