

Characteristics							
1.1 Brand	MiMA						
1.2 Model		MFZ16M	MFZ20M	MFZ16H	MFZ20H	MFZ25M	MFZ30M
1.3 Drive type	Battery						
1.4 Operation type	Seated						
1.5 Operation method	Electric proportional						
1.6 Load capacity	Q(kg)	1600	2000	1600	2000	2500	3000
1.7 Load center distance	C(mm)	600					
1.8 Distance from front axle to fork vertical face	x(mm)	371	407	312	335	442	526
1.9 Front overhang	x1(mm)	184	205	184	205		
1.10 Wheelbase	y(mm)	1400	1500	1400	1500	1650	1750
Weight							
2.1 Service weight (incl.battery)	kg	3700	4131	4120	4346	4760	4800
2.2 Axle loading fork back, unladen front/rear	kg	2309/1391	2446/1510	2453/1467	2552/1794	2938/1822	2990/1810
2.3 Axle loading, fork forward, laden front/rear	kg	799/4501	730/5226	831/4789	833/5513	1022/6238	889/6911
2.4 Axle loading fork back, laden front/rear	kg	2042/3258	2196/3761	2020/3600	2205/4141	2832/4428	3043/4757
Wheels							
3.1 Tyre type, front/rear	Solid PU/Solid PU						
3.2 Tyre size, front	mm	φ343×120				φ343×140	
3.3 Tyre size, rear	mm	φ300×120[1]	φ343×120[1]	φ300×120[1]	φ343×120[1]	φ343×130	
3.4 Wheels,number front/rear (X=driven)		1X / 2					
3.5 Track width, rear	b11[1](mm)	1170[1]				1170	
Dimensions							
4.1 Mast/Fork tilt angle front/rear	α/β(°)	2/4					
4.2 Mast retracted height	h1(mm)	2253		2820		3636	
4.3 Free lift height	h2(mm)	1108[2]		1676[2]		2736[8]	
4.4 Lift height	h3(mm)	4600		6300		8000	
4.5 Mast extended height (with backrest)	h4(mm)	5635[3]		7335[3]		9172[9]	
4.6 Overhead guard height	h6(mm)	2200					
4.7 Seat height	h7(mm)	1122					
4.8 Side shift distance		±50					
4.9 Support arms height	h8(mm)	320	263	320		363	
4.10 Overall length		2345	2409	2404	2481	2524	2540
4.11 Length to fork face	l2(mm)	1275	1339	1334	1411	1454	1470
4.12 Overall width	b1/b2(mm)	1270/1290[1]					1270/1300
4.13 Fork dimensions	l1/e1(e2)(mm)	1070×100×35	1070×122×40	1070×100×35	1070×122×40	1070×125×45	
4.14 Fork carriage width	b3(mm)	1020					
4.15 Fork outside spread	b5(mm)	232-728	254-750	232-728	254-750	250-750	
4.16 Support arms inner width	b4(mm)	906					
4.17 Reach distance	l4(mm)	555	613	496	541	652	736
4.18 Ground clearance below mast	m1(mm)	75					
4.19 Axle width with pallet 1000×1200mm 1200 cross fork	Ast1(mm)	2716	2791	2760	2843	2915	2960
4.20 Axle width with pallet 800×1200mm 1200 cross fork	Ast2(mm)	2767	2835	2821	2900	2953	2979
4.21 Turning radius	Wa(mm)	1647	1747	1647	1747	1896	1996
4.22 Vehicle length	7(mm)	1796	1918	1796	1918	2068	2168
Performance							
5.1 Travelling speed, laden/unladen	km/h	14/14				10/10	
5.2 Lift speed, laden/unladen	m/s	0.33/0.5[4]	0.33/0.5[4]	0.33/0.5[4]	0.33/0.5[4]	0.28/0.34[10]	0.25/0.34[10]
5.3 Lowering speed, laden/unladen	m/s	0.53/0.52				0.42/0.42	
5.4 Mast travel speed, forward/retract	m/s					0.2	
5.5 Gradeability, laden/unladen (S2=5min)	% (tanδ)					10	
5.6 Service brake		Hydraulic				Hydraulic	
Motor							
6.1 Drive motor rating(S2=60min)	kw	5.8[7]				5.8[7]	
6.2 Lift motor rating(S3=15%)	kw	12.8[5]				12.8[5]	
6.3 Steer motor rating(S2=60min)	kw					0.4	
6.4 Battery voltage/nominal capacity	V/Ah	48/420	48/560	48/560	48/700		
6.5 Lithium Battery voltage/nominal capacity(optional)	V/Ah	48/300	48/560	48/300	48/460		
6.6 Battery weight	kg	715	920		1100		
Others							
7.1 Battery replacement method		Front pull					
7.2 Noise level at operator's ear	dB(A)	75					75

[Note 1]: When equipped with an electromagnetic brake, the tire width is 115 mm, the wheel tread is 1155 mm, and the overall vehicle width is 1270 mm.

[2]: The free lift height increases when the load backrest is not installed.

[3]: The maximum lift height decreases by 178 mm without the load backrest.

[4]: With the optional high-performance fast lift system, the lifting speed is 0.43/0.55 m/s for the 1.6-ton model and 0.4/0.55 m/s for the 2.0-ton model.

[5]: The power is 14 kW when the high-performance fast lift system is selected.

[6]: The noise level is 68 dB(A) when the high-performance fast lift system is selected.

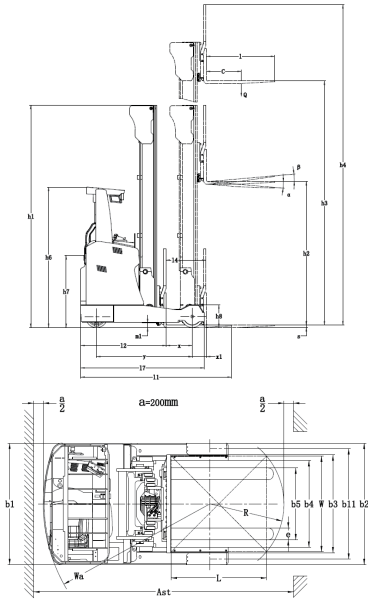
[7]: Optional 8 kW drive motor available.

[8]: Free lift height increases without load backrest.

[9]: Maximum lift height decreases by 311 mm without load backrest.

[10]: With optional high-performance fast-lifting system, lifting speed is 0.32/0.4 m/s for 2.5 ton model and 0.3/0.4m/s for 3.0 ton model.

2D View



Load Chart

Load center distance: C=600mm Lift height: h3(mm) Load capacity: Q(kg)

Lifted load height	5400	6000	7000	8000	8500	9500	10500	11500	12500
MFZ16M	1600	1600	1500	1300	1200	900	/	/	/
MFZ16H	1600	1600	1550	1350	1250	1000	900	/	/
MFZ20M	2000	1900	1700	1500	1350	1100	900	700	600
MFZ20H	2000	2000	1800	1600	1450	1300	1100	950	800
MFZ25M	2400	2350	2100	1850	1700	/	/	/	/
MFZ30M	2500	2400	2150	1900	1750	/	/	/	/

*This table lists only partial load parameters. For detailed information, please consult a professional sales engineer.

Mast Specifications Summary

Triplex full-free mast	MFZ16M: 4600-9500mm; MFZ16H: 4600-10500mm; MFZ20M/MFZ20H: 4600-12500mm;									
Lift height	h3(mm)	4600	6000	7000	8000	9000	10000	11000	12500	
Mast extended height (with backrest)	h4(mm)	5635	7035	8035	9035	10035	11035	12035	13535	
Mast retracted height	h1(mm)	2253	2720	3153	3486	3920	4253	4586	5086	
Free lift height (with backrest)	h2(mm)	1108	1576	2006	2340	2845	3178	3511	4011	
Free lift height (without backrest)	h2(mm)	1108	1576	2006	2340	2876	3208	3540	4040	

Triplex full-free mast	MFZ25M/MFZ30M: 3600-8500mm;									
Lift height	h3(mm)	3600	4600	5400	6000	6500	7000	7500	8500	
Mast extended height (with backrest)	h4(mm)	4772	5772	6572	7172	7672	8172	8672	9672	
Mast retracted height	h1(mm)	2070	2403	2670	2870	3037	3303	3469	3803	
Free lift height (with backrest)	h2(mm)	858	1191	1458	1658	1825	2091	2257	2591	
Free lift height (without backrest)	h2(mm)	1168	1502	1768	1968	2135	2402	2570	2902	

Note [1]: Maximum mast height during lifting includes load backrest; subtract 178mm if stand load backrest is not included.

Note [2]: The maximum height of the mast when lifting includes the dimension with the load rack; subtract 312mm when the standard load rack is not included.

MFZ16/20/25/30M

MFZ16/20H

SEATED ELECTRIC REACH TRUCK



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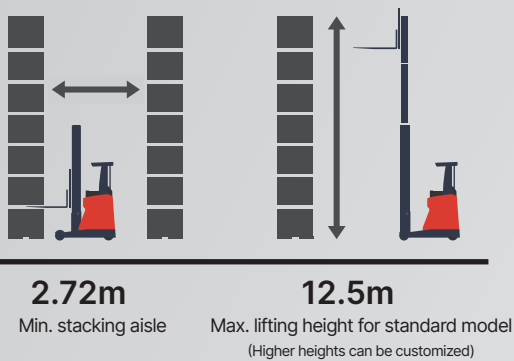
Website: www.mimaforklift.com

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Faster speed, higher efficiency

VNA high-level dense storage



The MFZ series is a new reach truck with a load capacity of 1.6 to 3.0 tons and a max. lifting height of 12.5 meters. The mast can be moved forward or retracted. It features a compact body, small turning radius, and high efficiency. The truck uses a full AC maintenance-free system with excellent performance. The narrow mast design provides better visibility and improved safety.

Suitable for:
Medium storage density, high turnover scenarios;
Stacking in narrow aisles

MFZ New Series Models

Model	Operation type	Battery	Max. lifting height
MFZ16/20S	Multi-way valve	48V	Up to 8 m
MFZ16/20D	Electromagnetic valve	48V	Up to 8 m
MFZ16L	Electromagnetic valve	80V	Up to 9.5 m
MFZ16M	Electromagnetic valve	48V	Up to 9.5 m
MFZ16H	Electromagnetic valve	48V	Up to 10.5 m
MFZ20M	Electromagnetic valve	48V	Up to 12.5 m
MFZ20H	Electromagnetic valve	48V	Up to 12.5 m
MFZ25/30M	Electromagnetic valve	48V	Up to 8.5 m



MFZ16L
Lithium battery version



MFZ20D
Electromagnetic valve



MFZ20S
Multi-way valve

For indoor stacking needs, when counterbalance forklift aisle width or load capacity cannot meet the requirements, reach trucks are the preferred choice. Stand-on reach trucks have the most optimized aisle; when load capacity or lifting height is insufficient, seated reach trucks are better. Stand-on reach trucks: lower lifting height, lighter high-level loads, smaller aisles, flexible operation, suitable for short-time tasks. Seated reach trucks: higher lifting height, stronger high-level load capacity, slightly wider aisles than standing type, suitable for long-time tasks, higher efficiency. MiMA seated reach trucks cover a wide range of tonnage, with high lifting height, better high-level stability, faster lifting/lowering speed, effectively improving warehouse handling and stacking efficiency.



High-strength mast

- High-margin mast with high precision and strong load capacity
- High-stability mast, stable at high positions
- Mast cushioning system with minimal sway

Visibility

- Narrow mast design improves visibility and safety
- Offset free-lift cylinder for better central view
- Tilted overhead guard beam helps observe goods at height, enhancing high-level stacking visibility
- Streamlined side body design avoids blocking view when picking goods at low level

Comfort

- Equipped with integrated handle and thumb switch, lighter and more comfortable to operate
- Multi-function smart dashboard with wheel display
- Adjustable seat for optimal operator comfort, easier for long-time work
- Spacious cabin, easy to get in and out
- Quiet operation with low noise level, more comfortable driving experience



Efficiency

- High work efficiency: faster lifting/lowering and travel speed, improved productivity
- 180°/360° steering mode switch increases efficiency in aisles; 360° mode allows direction switch without stopping
- Built-in (integrated) side shifter: standard fork can move left/right, easier to adjust fork position when picking goods
- Full AC system with imported controller, stable and efficient

Safety

- All-wheel braking: front and rear wheel brakes for better braking, safe on wet or icy surfaces
- HD wheel display
- Ultra-quiet, high-precision, high-sensitivity steering system enhances control and responsiveness, improving safety
- High-level fork camera system with laser-assisted positioning, safer picking and placing
- OPS presence detection: truck functions (driving, hydraulics, etc.) only activate when operator is in position and foot switch is pressed, ensuring safety



Overhead guard



HD fork camera system



Operation handle (optional)