

MFZ16/20

ELECTRIC REACH TRUCK(SEATED)





E-mail: sales@mimachina.com Website: www.mimaforklift.com

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







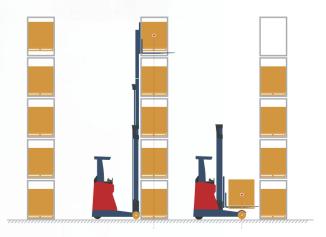


ELECTRIC REACH TRUCK (SEATED)

MFZ16 / MFZ20

MiMA has launched a new type of reach truck – MFZ16/20 series model, after careful design and improvement. This model has the traditional advantages of a reach truck such as high load, high lifting, and narrow aisle, and has made great improvements in efficiency and vision. Compared with the existing models on the market, it has achieved obvious advantages, especially driving speed, lifting speed, lowering speed and mast stability. Using this model can improve the efficiency and utilization of your warehouse.

Model	MFZ16	MFZ20
Load Capacity	1600kgs	2000kgs
Max.Lifting Height	10500mm	12500mm
Driving Type	Seated	Seated



When loading and unloading goods, the mast rises and moves forward, and the center of gravity of the goods falls outside the body of the vehicle.

When transporting and walking, the mast is retracted and lowered, and the center of gravity of the cargo falls on the body of the vehicle.



High Capacity Mast High-precision mast has no loss of load below 6300mm and excellent performance on-highloads High position to top without impact Mast switch smoothly Narrower Aisle, Higher Lift Soft landing stably and silently MiMA's new MFZ model has a 60mm-90mm stacking aisle reduction compared with the old model. Compared with well-known forklift brands at home and abroad, it is in the first echelon in terms of stacking aisle and has a greater competitive advantage. The weight without loss of load and high load are at the highest level compared with well-known domestic manufacturers.

Mast Buffer System, More Stable Operation

Productivity goes hand in hand with forklift stability because operational stability enhances the operator's confidence and sense of security, allowing him to operate faster. MiMA's new MFZ seated reach truck has a stable design of the mast buffer system, which greatly reduces the shaking of the mast at high positions. Compared with the same model, it has achieved greater benefits. The high sway of the old model is about 100-150mm, and the new model is about 40mm or less. Shaking time is reduced by

50%-80%.

Shake Distance Reduced Shake Time Reduced

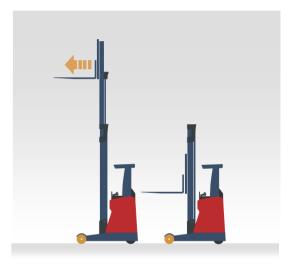
60%~70%

50%-80%



Old Type MFZ Model

At the same time, this model also has a more stable design. For example, when the middle mast is lifted, the forward and backward movement speed of the mast, the driving speed, and the acceleration and deceleration rate are reduced, and the acceleration and deceleration are softer and more stable: movement deceleration at the ends of moving foward and backward, etc., ensure the smoothness and precision of operation control, and further improve the operator's confidence and work efficiency.



High Lift Deceleration



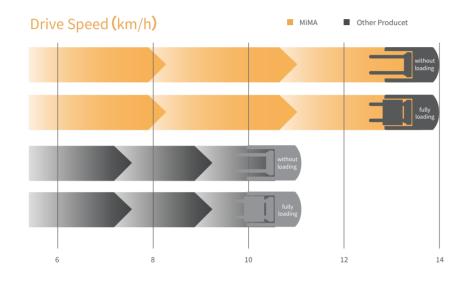
Forward and Backward End Deceleration

New Type MFZ Model

03

Faster More efficient

MiMA's new MFZ model has obvious speed advantage, and its lifting speed, descending speed and forward and backward moving speed are all the best in China at present. The lift motor is increased to 14KW, and the drive motor is increased to 8KW. Every operation of the operator has been improved and the production efficiency has been improved.

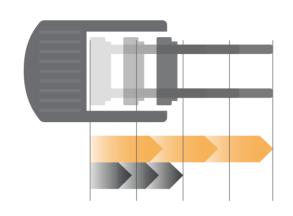


The productivity advantage of MiMA's new MFZ model comes first and foremost from the faster driving speed, which can work faster. The driving speed is up to 14km/h, which is 30% faster than other products' speed of 11 km/h.

Mast Lifting Speed (mm/s) Mast Lowering Speed (mm/s) MiMA Other Producet 550 500 450 250 Minda Minda Other Producet 550 500 450 500 150 500 150

When fully loaded, the lifting speed of the mast is 15% faster than other models, and the descending speed is 20% faster.

Forward and Backward Speed (mm/s)

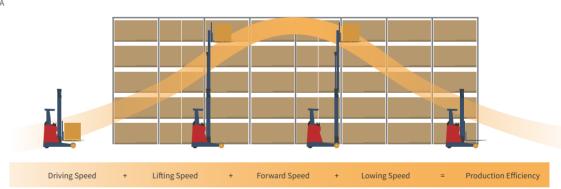


A Other Produce

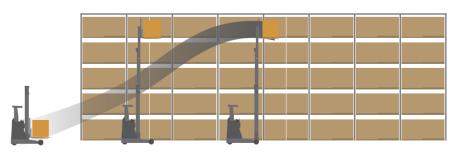
MiMA's new MFZ model has faster forward and backward movement speeds, which is another strength of the MFZ model, further improving production efficiency and having a 50% faster advantage than other models.

Advantages of Productioity

MiMA



Other Producet



MiMA's new MFZ model is dedicated to improving the operation and efficiency of tasks, providing the safest and most efficient mode of operation, so at the end of each day, MFZ can always complete more tasks.

Narrow mast design Vision optimization

Visual field is another important factor that affects the operation efficiency, because a good visual field can provide operators with sufficient confidence and make their operation more convenient and fast. The new MFZ model is designed with a narrow mast, which has a good lateral view and middle view, which is convenient for operators to observe the cargo status and improve efficiency.





Visual field assistance Convenient operation

Fork vision system

The vision system of the fork ensures that the forklift still has a good vision and operability when working at a high position. A high-definition camera is installed at the root of the fork, and the cross laser is used for accurate positioning. The operator can clearly observe the position of the goods through the high-definition display, which improves efficiency and safety.



Driving wheel display

Equipped with drive wheel angle display function, it displays drive wheel angle, which is easier to operate.



Easy to operate and comfortable to improve efficiency

Integrated joystick(Optional)

Integrated all hydraulic action, horn button, driving direction operating switch, simplify the operation process, reasonable ergonomic design, more convenient operation, improve operating efficiency



Steering tiller

Intuitive steering tiller, operator centered design, effectively simplifies control operations.



Suspension seat(Optional)

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



Built-in (integrated) side shifter

Standard configuration forks can be side shifted left and right, is convenient to adjust the position of the forks to take goods.



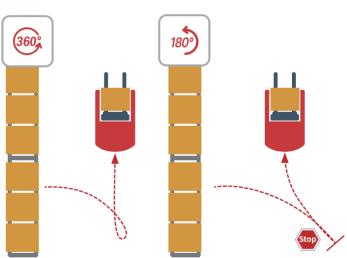
All-wheel electromagnetic braking

The vehicle is equipped with all-wheel braking, with both front and rear wheel brakes. Compared with regular brakes, it offers shorter braking distances, better braking performance, and enhances operator's safety during operation. The load wheels are configured with drum brake and electromagnetic brake, electromagnetic brake can further enhance the stability of the mast at high positions.



180°/360° steering mode

Switch between 180°/ 360° mode can improve working efficiency in the aisle. In 360° mode, there is no need to stop to switch the direction switch (forward/backward), while in 180° (conventional mode), you need to stop and then switch the direction switch (forward/backward) before turning the steering wheel.



One-Key Return to Center

When the position of the driving wheel cannot be quickly identified due to excessive steering operations, the two one click for turn-back keys can be pressed at the same time, and the driving wheel will automatically turn-back to the center.



OPS

The vehicle has OPS in-position sensing function, mainly including pedal switch and seat switch. Only when the operator is in position, step on the pedal switch to start running, hydraulic functions and other functions to ensure vehicle safety.

l.1	Brand		MiMA	MiMA
	Model		MFZ16M	MFZ20M
3	Power type		Battery	Battery
.4	Operation type		Seated	Seated
5	Rated capacity		1600	2000
.6	Load center		600	600
.7	Distance from fork surface to front wheel center		364	407
8	Front overhang		184	205
L.9	Wheelbase		1400	1500
Veigh			1.00	1500
	•••••			
.1	Vehicle weight (including battery)	kg	3700	4131
.3	Axle capacity with no load, drive side/load side	kg	2309/1391	2446/1510
.4	Axle capacity with full load when fork forward,drive side/load side	kg	799/4501	730/5226
.5	Axle capacity with full load when fork backward, drive side/load side	kg	2042/3258	2196/3761
Vheel				
.1	Wheel type, Drive wheel/Load wheel		PU/PU	PU/PU
		mm	φ300×120[1]	ф343×120[1]
	Size, load wheel			
.3	Size, dive wheel	mm	ф343×120	ф343×120
.4	Number of wheels, front/rear(x=drive wheel)		2/ 1X	2/1X
3.5	Wheel tread, load side	b11(mm)	1170[1]	1170[1]
ize				
.1	Fork tilt range, front/rear	α/β(°)	2/4	2/4
.2	Mast closed height	h1(mm)	2253	2253
1.3	Free lift height	h2(mm)	1013[2]	1013[2]
.4	Lift height	h3(mm)	4600	4600
.5	Mast extended height with load-backrest	h4(mm)	5800[3]	5800[3]
.7	Overhead guard height	h6(mm)	2200	2200
1.8	Seat height	h7(mm)	1122	1122
1.9	Lateral travel		±50	±50
.10	Leg height	h8(mm)	320	363
.19	Overall length	l1(mm)	2354	2409
1.20	Distance to fork surface	l2(mm)	1275	1339
1.21	Overall width	b1/b2(mm)	1270/1290[1]	1270/1290[1]
1.22	Fork size	l/e/s(mm)	1070×100×35	1070×122×40
1.24	Overhead guard width	b3(mm)	1024	1024
1.25	Fork outside width	b5(mm)	232-728	232-750
1.26	Inner leg width	b4(mm)	890	890
	Reach stroke	l4(mm)	555	613
.31	Mast ground clearance	m1(mm)	75	75
	Aisle width for pallet 1000* 1200mm(C=500mm)	Ast(mm)	2716	2791
1.34.2	Aisle width for pallet 800* 1200mm(C=600mm)	Ast(mm)	2767	2835
1.35	Turning radius	Wa(mm)	1647	1747
1.37	Overall length (excluding fork)	l7(mm)	1796	1918
uncti				
5.1		km/h	14/14	14/14
	Driving speed(load/unload)			
5.2	Lifting speed(load/unload)	mm/s	430/550	400/550
5.3	Lowering speed(load/unload)	mm/s	530/520	530/520
i.	Mast movement speed, forward/retract	mm/s	200	200
5.8	Max. Grade ability(load/unload)(S2-5min)	%(tanθ)	10	10
5.10	Brake type		Hydraumatic	Hydraumatic
/lotor				
.1	Driving motor(S2-60min)	kw	8.0	8.0
.2	Lifting motor(S3-15%)	kw	14	14
.3	Steering motor power (S2-60min)	kw	0.6	0.6
5.4	Battery voltage/capacity	V/Ah	48/420	48/560
5.5	Lithium battery voltage/capacity (optional)	V/Ah	48/300	48/460[4]
5.6	Battery weight	kg	715	920
other		-		
.1	Battery replacement type		Hoist	Hoist

[1]:[1]When the electromagnetic brake is configured, the tire width is 115mm, the wheel base is 1155mm and the body width is 1270mm; [2]:Free lifting height increases when there is no stop shelf;	[3]:The maximum	
lifting height of the chalf without goar is reduced by 249 mm		

lifting height of the shelf without gear is reduced by 348mr

Standa	ard			
1.1	Brand		MiMA	MiMA
 l.2	Model		MFZ16H	MFZ20H
.3	Powertype		Battery	Battery
L.4			Seated	Seated
	Operation type	0/1)		
L.5	Rated	Q(kg)	1600	2000
1.6	Load center	C(mm)	600	600
1.7	Distance from fork surface to front wheel center	x(mm)	307	335
1.8	Front overhang	x1(mm)	184	205
1.9	Wheelbase	y(mm)	1400	1500
Neigh	t			
2.1	Vehicle weight (including battery)	kg	4120	4346
2.3	Axle capacity with no load, drive side/load side	kg	2453/1467	2552/1794
2.4	Axle capacity with full load when fork forward,drive side/load side	kg	931/4789	833/5513
	Axle capacity with full load when fork backward,drive side/load side	kg	2020/3600	2205/4141
Vheel			1010/3000	2200, 1212
			DIVIDU	BURN
	Wheel type, Drive wheel/Load wheel		PU/PU	PU/PU
.2	Size, load wheel	mm	φ300×120[1]	ф343×120[1]
.3	Size, dive wheel	mm	ф343×120	ф343×120
.4	Number of wheels, front/rear(x=drive wheel)		2/ 1X	2/ 1X
3.5	Wheel tread, load side	b11(mm)	1170[1]	1170[1]
Size				
.1	Fork tilt range, front/rear	α/β(°)	2/4	2/4
.2	Mast closed height	h1(mm)	2820	2820
	Free lift height	h2(mm)	1580[2]	1580[2]
.4	Lift height	h3(mm)	6300	6300
.5	Mast extended height with load-backrest	h4(mm)	7500[3]	7500[3]
.7	Overhead guard height	h6(mm)	2200	2200
.8	Seat height	h7(mm)	1122	1122
1.9	Lateral travel		±50	±50
1.10	Leg height	h8(mm)	320	363
	Overall length	l1(mm)	2404	2481
.20	Distance to fork surface	l2(mm)	1334	1411
.21		b1/b2(mm)	1270/1290[1]	1270/1290[1]
	Overall width	l/e/s(mm)	1070×1250[1]	1070×122×40
	Fork size			
	Overhead guard width	b3(mm)	1024	1024
.25	Fork outside width	b5(mm)	232-728	232-750
.26	Inner leg width	b4(mm)	890	890
.28	Reach stroke	l4(mm)	496	541
.31	Mast ground clearance	m1(mm)	75	75
.34.1	Aisle width for pallet 1000* 1200mm(C=500mm)	Ast(mm)	2760	2843
	Aisle width for pallet 800* 1200mm(C=600mm)	Ast(mm)	2821	2900
.35	Turning radius	Wa(mm)	1647	1747
.37	Overall length (excluding fork)	l7(mm)	1796	1918
uncti				
.1	Driving speed(load/unload)	km/h	14/14	14/14
.2	Lifting speed(load/unload)	mm/s	430/550	400/550
.3	Lowering speed(load/unload)	mm/s	530/520	530/520
	Mast movement speed, forward/retract	mm/s	200	200
.8	Max. Grade ability(load/unload)(S2-5min)	%(tanθ)	10	10
.10	Brake type		Hydraumatic	Hydraumatic
lotor	············			
	Driving motor/\$2.60mim\	kw	0.0	8.0
1	Driving motor(S2-60min)	kw	8.0	8.0
2	Lifting motor(S3-15%)	kw	14	14
.3	Steering motor power (S2-60min)	kw	0.4	0.4
.4	Battery voltage/capacity	V/Ah	48/560	48/700
.5	Lithium battery voltage/capacity (optional)	V/Ah	48/300	48/460
	Battery weight	kg	715	920
.6				
ther	Datter vanlacement ture			Uniot
.6 Other .1	Battery replacement type Noise	dB(A)	Hoist 68	Hoist 68

When the electromagnetic brake is configured, the tire width is 115mm, the wheel base is 1155mm and the body width is 1270mm; [2]:Free lifting height ncreases when there is no stop shelf; [3]:The maximum lifting height of the shelf without gear is reduced by

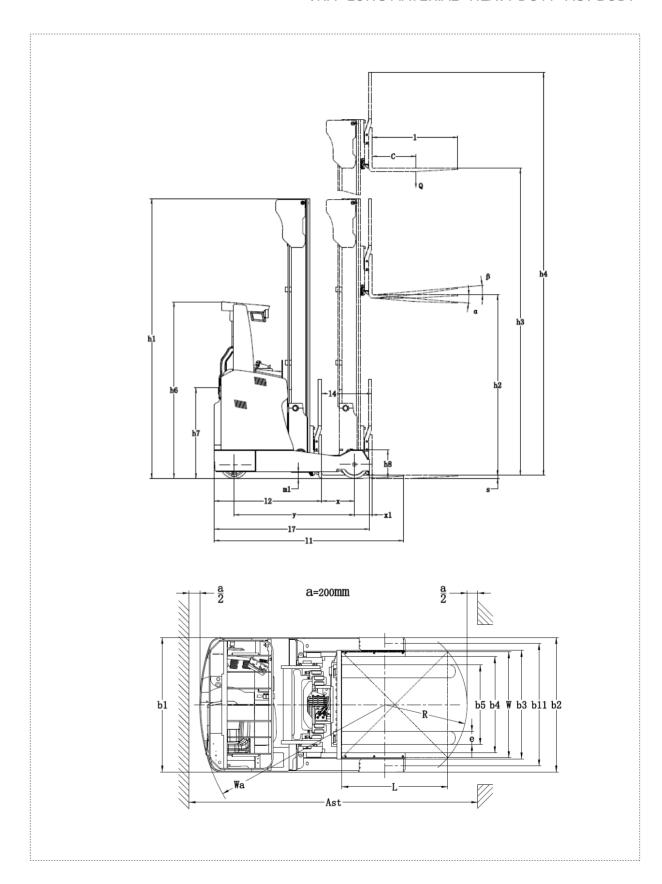
Load parameter

Model	h3 (mm)	5400	5700	6000	6300	6500	6750	7000	7150	7500	8000	8500	9000	9500	10000	10500	10800	11000	11500	12000	12500
	C=600mm	2000	1950	1900	1850	1800	1750	1700	1700	1600	1500	1350	1200	1100	1050	900	800	750	700	650	600
MFZ20M	C=700mm	1770	1730	1690	1640	1600	1550	1500	1500	1420	1330	1200	1060	970	930	800	700	660	620	570	530
(48V560AH) Q (kg)	C=800mm	1600	1560	1520	1480	1440	1400	1360	1360	1280	1200	1080	960	880	840	720	640	600	560	520	480
	C=900mm	1310	1280	1240	1210	1180	1140	1110	1110	1050	980	880	780	720	690	590	520	490	460	420	390
	C=1000mm	1130	1100	1080	1050	1020	1000	960	960	910	850	760	680	620	600	510	450	420	400	370	341
	C=600mm	2000	2000	2000	2000	1950	1850	1800	1800	1650	1600	1450	1350	1300	1200	1100	1050	1000	950	850	800
	C=700mm	1770	1770	1770	1770	1730	1640	1600	1600	1460	1420	1300	1200	1150	1060	970	970	890	840	750	700
MFZ20H (48V700AH)	C=800mm	1600	1600	1600	1600	1560	1480	1440	1440	1320	1280	1160	1080	1040	960	880	880	700	700	680	640
Q (kg)	C=900mm	1310	1310	1310	1310	1280	1210	1180	1180	1080	1050	950	880	850	780	650	720	600	560	550	520
	C=1000mm	1130	1130	1130	1130	1100	1050	1020	1020	930	910	820	760	730	680	620	620	560	530	480	450
	C=600mm	1600	1600	1600	1600	1600	1550	1500	1500	1400	1300	1200	1050	900	/	/	/	/	/	/	/
MFZ16M	C=700mm	1420	1420	1420	1420	1420	1370	1330	1330	1240	1150	1060	970	890	/	/	/	/	/	/	/
(48V420AH) Q (kg)	C=800mm	1280	1280	1280	1280	1280	1240	1200	1200	1120	1040	960	880	700	/	/	/	/	/	/	/
2 . 0.	C=900mm	950	950	950	950	950	920	890	894	830	770	710	650	600	/	/	/	/	/	/	/
	C=1000mm	900	900	900	900	900	870	840	844	790	730	670	620	560	/	/	/	/	/	/	/
	C=600mm	1600	1600	1600	1600	1600	1600	1550	1550	1450	1350	1250	1150	1000	950	800	/	/	/	/	/
	C=700mm	1420	1420	1420	1420	1420	1420	1370	1370	1300	1200	1100	1020	890	840	700	/	/	/	/	/
MFZ16H (48V560AH)	C=800mm	1280	1280	1280	1280	1280	1280	1240	1240	1160	1080	1000	920	700	760	640	/	/	/	/	/
Q (kg)	C=900mm	950	950	950	950	950	950	920	920	950	880	800	690	600	560	520	/	/	/	/	/
	C=1000mm	900	900	900	900	900	900	870	870	820	760	700	650	560	530	450	/	/	/	/	/

Mast parameter

Triplex full free mast MFZ16M: 4600-9500mm; MFZ16H: 4600-10500mm;																							
Model	MFZ1	6	16T-46	16T-48	16T-54	16T-5	7 167	-60	L6T-63	16T-65	16T-67	16T-7	0 16	T-71	16T-75	16T-80	16T-85	16T-90	16T-95	16T-10	0 16T-10	5	
Lift Height	h3(mr	n)	4600	4800	5400	5700	60	00	6300	6500	6750	7000	7	150	7500	8000	8500	9000	9500	10000	10500		
Mast extended height with load-backrest	h4(mm)[1]	5800	6000	6600	6900	72	00	7500	7700	7950	8200	8	350	8700	9200	9700	10200	10700	11200	11700		
Mast closed height	h1(mr	n)	2253	2320	2520	2620	27	20	2820	2887	3070	3153	3	203	3319	3486	3653	3920	4086	4253	4420		
Free lift height (including load-backrest)	h2(mr	n)	1013	1080	1280	1380	14	80	1580	1647	1830	1913	1	963	2079	2246	2413	2680	2846	3013	3180		
Free lift height (excluding load-backrest)	h2(mn	n)	1118	1186	1186	1486	5 15	86	1686	1754	1936	2018	2	068	2182	2350	2518	2886	3050	3218	3386		
Triplex full free r	nast MFZ20	M: 460	00-12500	mm; MF	Z20H: 4	600-125	00mm;																
Model	MFZ20	20T-4	20T-48	20T-54	20T-57	20T-60	20T-63	20T-65	20T-67	20T-70	20T-71	20T-75	20T-8	0 20T	-85 20T-9	90 20T-95	20T-100	20T-105	20T-108	20T-110	20T-115	20T-120	20T-125
Lift Height	h3(mm)	4600	4800	5400	5700	6000	6300	6500	6750	7000	7150	7500	8000	850	00 900	9500	10000	10500	10800	11000	11500	12000	12500
Mast extended height with load-backrest	h4(mm)[1]	5800	6000	6600	6900	7200	7500	7700	7950	8200	8350	8700	9200	97	00 1020	0 10700	11200	11700	12000	12200	12700	13200	13700
Mast closed height	h1(mm)	2253	2320	2520	2620	2720	2820	2887	3070	3153	3203	3319	3486	36	53 392	0 4086	4253	4420	4520	4586	4753	4920	5086
Free lift height (including load-backrest)	h2(mm)	1013	1013	1280	1380	1480	1580	1647	1830	1913	1963	2079	2246	24.	13 268	0 2846	3013	3180	3280	3346	3513	3680	3846
Free lift height (excluding load-backrest)	h2(mm)	1118	1186	1386	1486	1586	1686	1754	1936	2018	2068	2182	2350	25	18 288	6 3050	3218	3386	3486	3550	3718	3886	4050

Note [1]: The maximum height of the gantry during lifting is the size of the gantry with the stop shelf included. If the standard stop shelf is not included, 348mm shall be deducted;



13