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INTERTRAC

Material Handling ☎ 900 818 978

info@carretillasintertrac.com



ELECTRIC REACH TRUCK

MFZ16/MFZ20/MFZ25/MFZ30(Seated)





Max.lifting height
12500mm

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



High Capacity Mast

High-precision mast has no loss of load below 6300mm and excellent performance on-highloads



Narrower Aisle, Higher Lift

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.

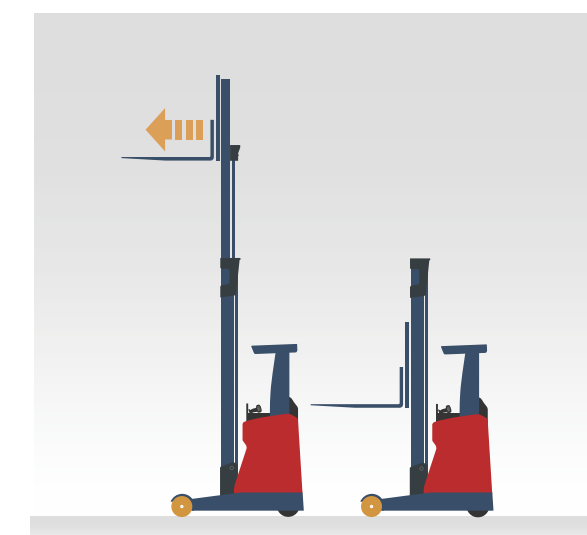
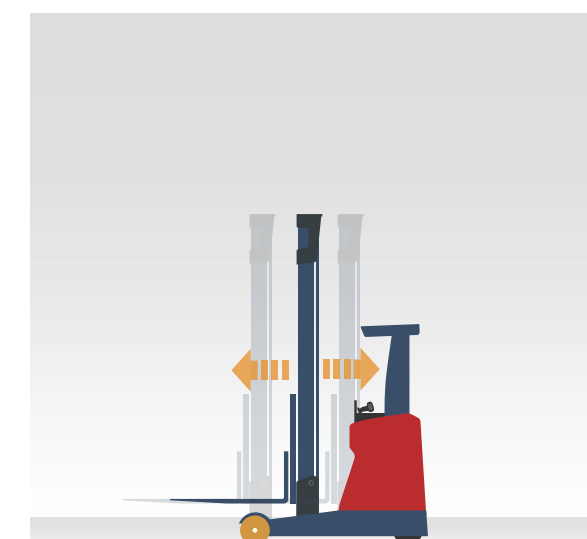
Mast Buffer System, More Stable Operation

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%.

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 forward and backward, etc., ensure the smoothness and precision of operation control, and further improve the operator's confidence and work efficiency.

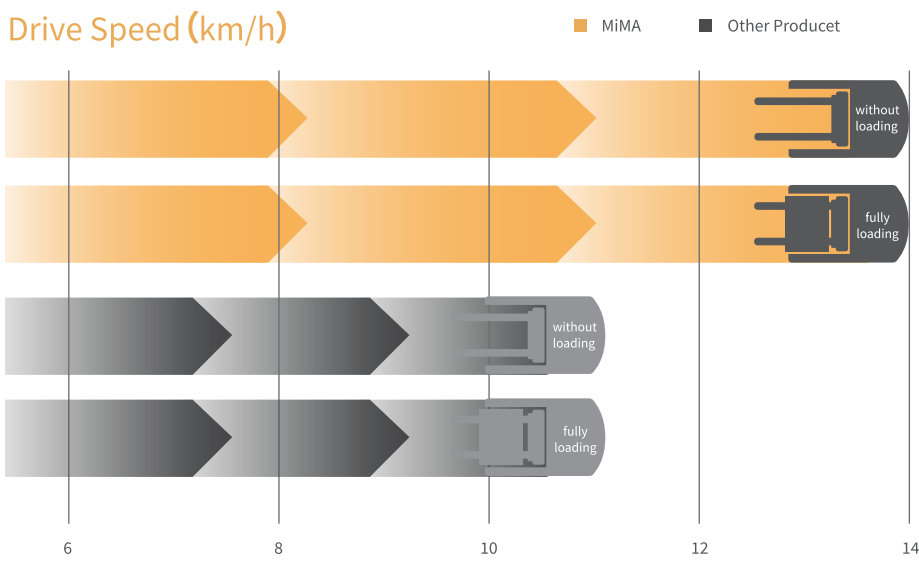
Shake Distance Reduced
60%~70%

Shake Time Reduced
50%-80%

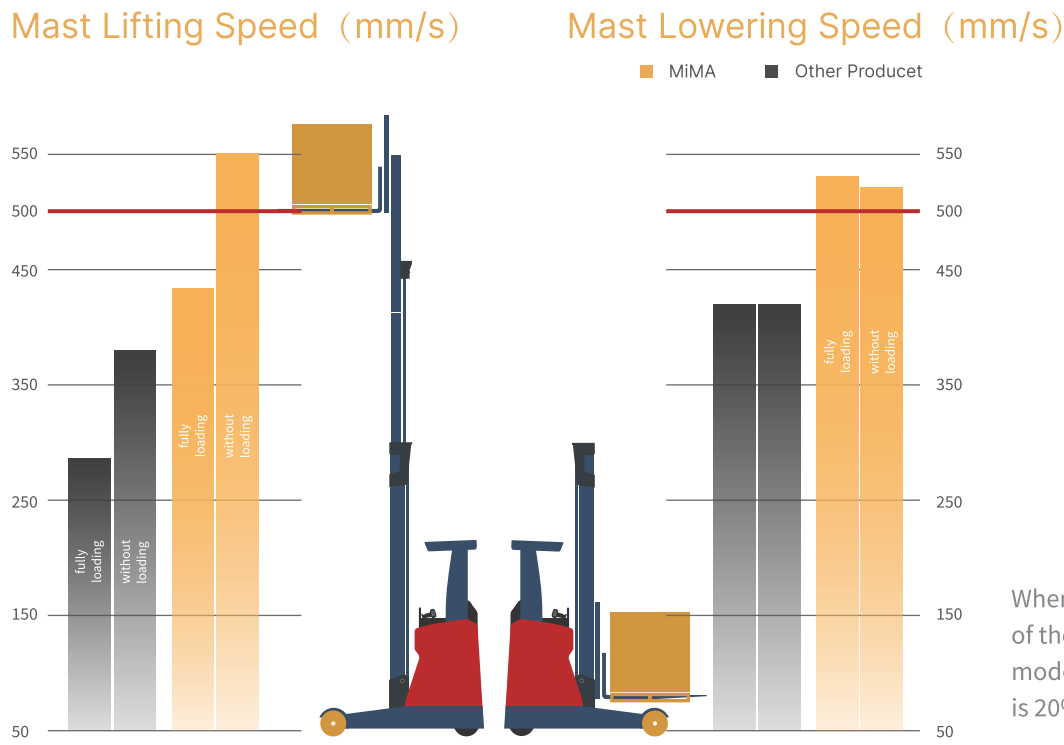


Faster More efficient

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.

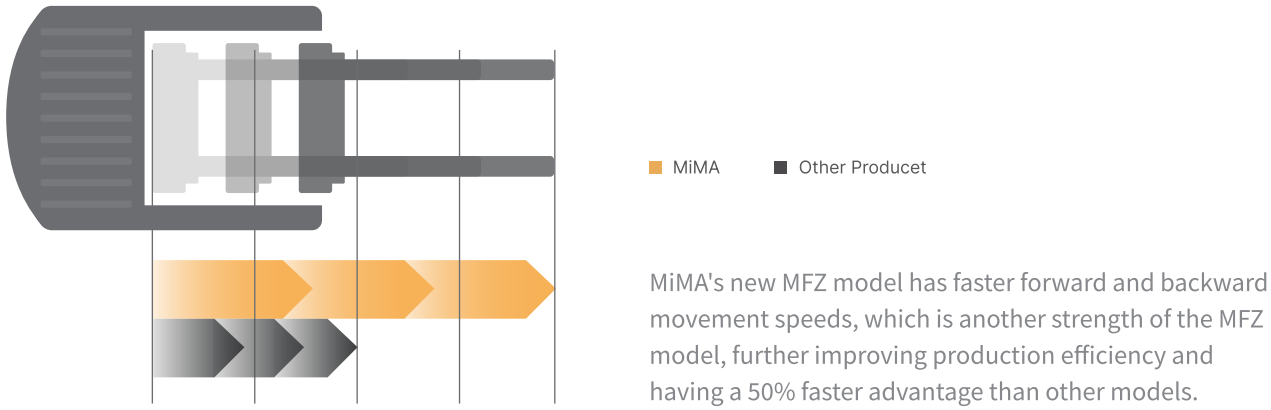


The productivity advantage of MiMA's new MFZ model comes first and foremost from the faster driving speed, which can work faster. The driving speed is up to 14km/h, which is 30% faster than other products' speed of 11 km/h.

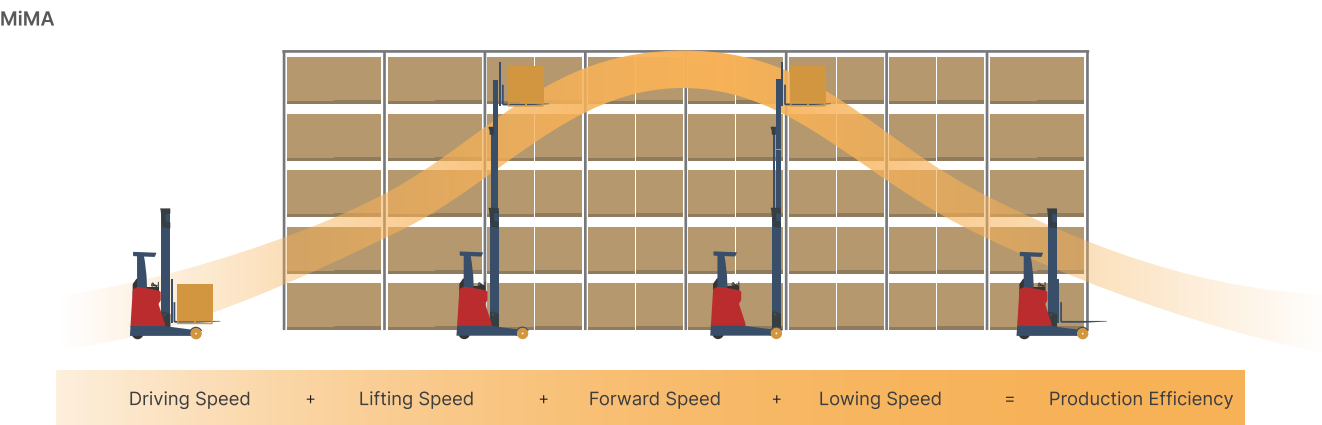
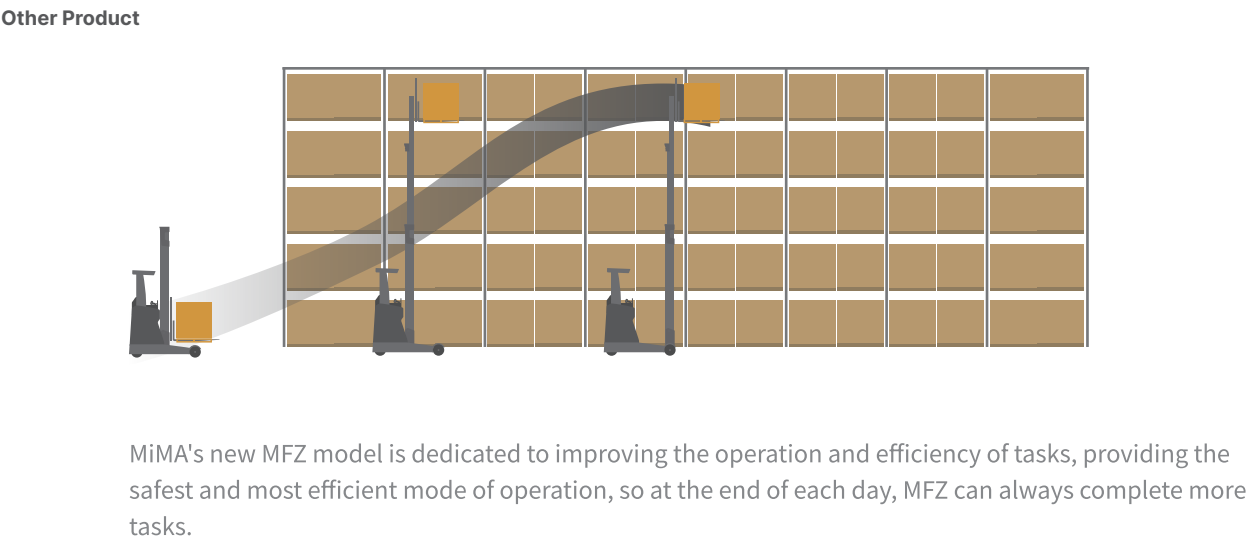


When fully loaded, the lifting speed of the mast is 15% faster than other models, and the descending speed is 20% faster.

Forward and Backward Speed (mm/s)



Advantages of Productivity



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

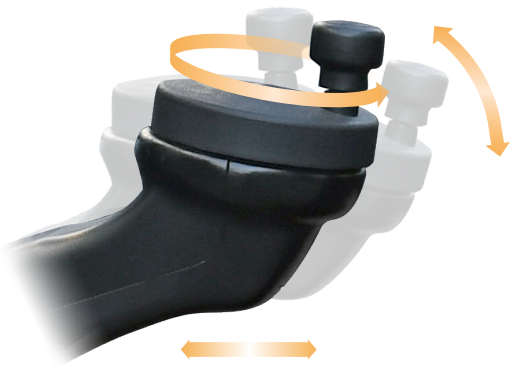
Equipped with drive wheel angle display function, it displays drive wheel angle, which is easier to operate.



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



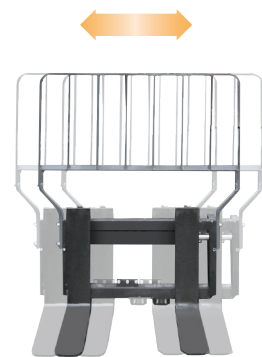
Steering tiller

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.

Noise Level
≤68dB

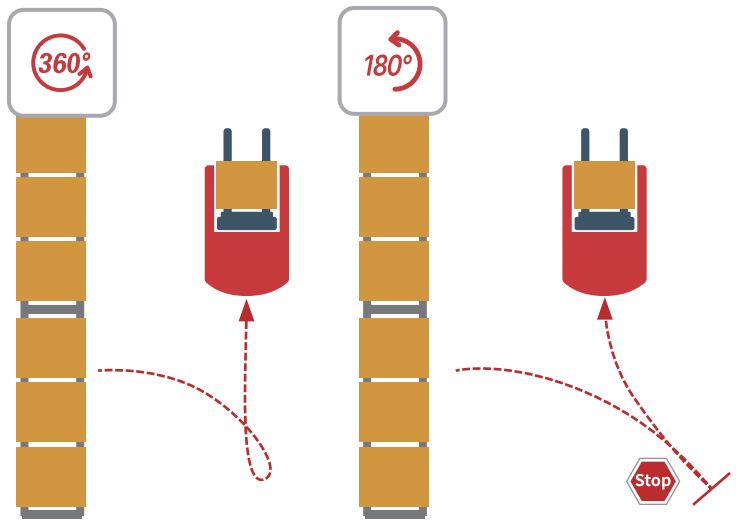
All-wheel electromagnetic braking

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.



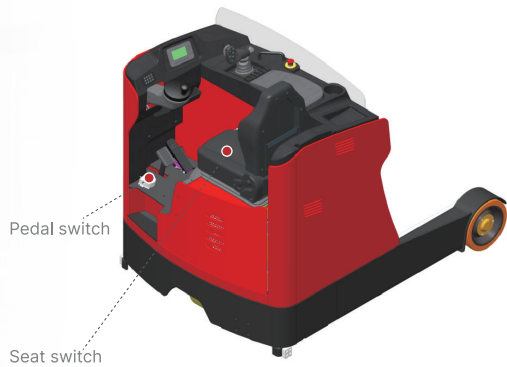
180°/360°steering mode

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.

MFZ16S MFZ20S SPECIFICATION			
Characteristics			
Manufacturer		MiMA	MiMA
Model		MFZ16S	MFZ20S
Power type		Battery	Battery
Operation type		Seated	Seated
Operation mode		Electric proportional	Electric proportional
Load capacity	Q(t)	2.5	3
Load center distance	C(mm)	600	600
Distance from fork surface to front wheel center	x(mm)	442	526
Front overhang	x1(mm)	205	205
Wheelbase	y(mm)	1650	1750
Weights			
Service weight (incl. battery)	kg	4760	4800
Axle loading,fork back, unladen front/rear	kg	2938/1822	2990/1810
Axle loading, fork forward, laden front/rear	kg	1022/6238	889/6911
Axle loading, fork back, laden front/rear drive/load side	kg	2832/4428	3043/4757
Wheels			
Tire type, front/rear		Polyurethane	Polyurethane
Tire size, front	mm	φ343×140	φ343×140
Tire size, rear	mm	φ343×130	φ343×130
Wheels,number front/rear (X=driven)		1X / 2	1X / 2
Track width,front	b11(mm)	1170	1170
Dimensions			
Fork tilt angle, front/rear	α/β(°)	2/4	2/4
Mast retracted height	h1(mm)	3636	3636
Free lift height	h2(mm)	2736[1]	2736[1]
Lift height	h3(mm)	8000	8000
Mast extended height (incl. backrest)	h4(mm)	9172[2]	9172[2]
Overhead guard height	h6(mm)	2200	2200
Seat height	h7(mm)	1122	1122
Side shift distance		±50	±50
Support arms height	h8(mm)	363	363
Overall length	l1(mm)	2524	2540
Length to fork face	l2(mm)	1454	1470
Overall width	b1/b2(mm)	1270/1300	1270/1300
Fork dimensions	l/e/s(mm)	1070×125×45	1070×125×45
Backrest width	b3(mm)	1020	1020
Fork outside spread	b5(mm)	250-750	250-750
Support arms inner width	b4(mm)	906	906
Reach distance	l4(mm)	652	736
Ground clearance below mast	m1(mm)	75	75
Aisle width with pallet 1000*1200mm 1200 cross fork	Ast(mm)	2915	2960
Aisle width with pallet 800*1200mm 1200 cross fork	Ast(mm)	2953	2979
Turning radius	Wa(mm)	1896	1996
Overall length (without forks)	l7(mm)	2068	2168
Performance			
Travelling speed, laden/unladen	km/h	10/10	10/10
Lift speed, laden/unladen	m/s	0.28/0.34[3]	0.25/0.34[3]
Lowering speed, laden/unladen	m/s	0.42/0.42	0.42/0.42
Reaching speed forward/backward	m/s	0.2	0.2
Maximum gradeability, full load/no loadε (s2=5min)	%(tanθ)	10	10
Service brake		Electromagnetic	Electromagnetic
Others			
Battery replacement method		Front pull	Front pull
Noise level at operator's ear	dB(A)	75[5]	75[5]

[1]:The free lifting height increases when there is no load backrest; [2]:The maximum lifting height is reduced by 311mm when there is no load backrest; [3]:When equipped with a high-performance fast lifting system, the speed of the 2.5-ton model is 320/400 (mm/s) and the speed of the 3.0-ton model is 300/400 (mm/s); [4]: When equipped with a high-performance fast lifting system, the power is 14kw; [5]: Noise 68dB(A) when equipped with high-performance fast lifting system; [6]:Optional 8kw drive motor is available;

MFZ16D MFZ20D SPECIFICATION			
Characteristics			
Manufacturer		MiMA	MiMA
Model		MFZ16D	MFZ20D
Power type		Battery	Battery
Operation type		Seated	Seated
Operation mode		Multiway valve	Multiway valve
Load capacity	Q(t)	1.6	2
Load center distance	C(mm)	600	600
Distance from fork surface to front wheel center	x(mm)	387[1][2]	426[1][2]
Front overhang	x1(mm)	184	184
Wheelbase	y(mm)	1400	1500
Weights			
Service weight (incl. battery)	kg	3700	4131
Axle loading,fork back, unladen front/rear	kg	2309/1391	2446/1510
Axle loading, fork forward, laden front/rear	kg	799/4501	730/5226
Axle loading, fork back, laden front/rear drive/load side	kg	2042/3258	2196/3761
Wheels			
Tire type, front/rear		Polyurethane	Polyurethane
Front wheel size	mm	φ343×120	φ343×120
Rear wheel size	mm	φ300×120	φ300×120
Number of wheels, front/rear (x=driving wheels)		1X / 2	1X / 2
Track width,front	b11(mm)	1170	1170
Dimensions			
Fork tilt angle, front/rear	α/β(°)	3/5	3/5
Mast retracted height	h1(mm)	2220	2220
Free lift height	h2(mm)	1120	1120
Lift height	h3(mm)	4500	4500
Mast extended height (incl. backrest)	h4(mm)	5630	5630
Overhead guard height	h6(mm)	2200	2200
Seat height	h7(mm)	1080	1080
Side shift distance		±50	±50
Support arms height	h8(mm)	320	320
Overall length	l1(mm)	2330[3][4]	2390[3][4]
Length to fork face	l2(mm)	1260[3][4]	1320[3][4]
Overall width	b1/b2(mm)	1270/1290	1270/1290
Fork dimension	l/e/s(mm)	1070×100×35	1070×122×40
Backrest width	b3(mm)	1090	1090
Fork outside spread	b5(mm)	250-703	272-725
Support arms inner width	b4(mm)	906	906
Reach distance	l4(mm)	570[1][2]	609[1][2]
Ground clearance below mast	m1(mm)	75	75
Aisle width with pallet 1000*1200mm 1200 cross fork	Ast(mm)	2707[5]	2777[5]
Aisle width with pallet 800*1200mm 1200 cross fork	Ast(mm)	2753[5]	2818[5]
Turning radius	Wa(mm)	1647	1747
Overall length (without forks)	l7(mm)	1796	1903
Performance			
Travelling speed, laden/unladen	km/h	14/14	14/14
Lift speed, laden/unladen	m/s	0.35/0.51	0.33/0.51
Lowering speed, laden/unladen	m/s	0.55/0.55	0.55/0.55
Reaching speed forward/backward	m/s	0.15	0.15
Maximum gradeability, full load/no loadε (s2=5min)	%(tanθ)	10	10
Service brake		Hydraulic	Hydraulic
Others			
Battery replacement method		Front pull	Front pull
Noise level at operator's ear	dB(A)	75	75

[1]:This value decreases by 60mm when optional side shifter is equipped; [2]:When MFZ16D is equipped with optional 48V56AH lead-acid battery or 48V460AH lithium battery, this value decreases by 50mm; when MFZ20D is equipped with optional 48V700AH lead-acid battery or 48V600AH lithium battery, this value decreases by 72mm; [3]:This value increases by 60mm when optional side shifter is equipped; [4]:When MFZ16D is equipped with optional 48V56AH lead-acid battery or 48V460AH lithium battery, this value increases by 50mm; when MFZ20D is equipped with optional 48V700AH lead-acid battery or 48V600AH lithium battery, this value increases by 72mm; [5]:This value increases by 40mm when optional side shifter is equipped; [6]:Optional 8kw drive motor is available;

MFZ16M MFZ20M SPECIFICATION			
Characteristics			
Manufacturer		MiMA	MiMA
Model		MFZ16M	MFZ20M
Power type		Battery	Battery
Operation type		Seated	Seated
Operation mode		Electric proportional	Electric proportional
Load capacity	Q(t)	1.6	2
Load center distance	C(mm)	600	600
Distance from fork surface to front wheel center	x(mm)	371	407
Front overhang	x1(mm)	184	205
Wheelbase	y(mm)	1400	1500
Weights			
Service weight (incl. battery)	kg	3700	4131
Axle loading,fork back, unladen front/rear	kg	2309/1391	2446/1510
Axle loading, fork forward, laden front/rear	kg	799/4501	730/5226
Axle loading, fork back, laden front/rear drive/load side	kg	2042/3258	2196/3761
Wheels			
Tire type, front/rear		Polyurethane	Polyurethane
Tire size, front	mm	φ343×120	φ343×120
Tire size, rear	mm	φ300×120[1]	φ343×120[1]
Wheels,number front/rear (X=driven)		1X / 2	1X / 2
Track width,front	b11(mm)	1170[1]	1170[1]
Dimensions			
Fork tilt angle, front/rear	α/β(°)	2/4	2/4
Mast retracted height	h1(mm)	2253	2253
Free lift height	h2(mm)	1108[2]	1108[2]
Lift height	h3(mm)	4600	4600
Mast extended height (incl. backrest)	h4(mm)	5635[3]	5635[3]
Overhead guard height	h6(mm)	2200	2200
Seat height	h7(mm)	1122	1122
Side shift distance		±50	±50
Support arms height	h8(mm)	320	363
Overall length	l1(mm)	2345	2409
Length to fork face	l2(mm)	1275	1339
Overall width	b1/b2(mm)	1270/1290[1]	1270/1290[1]
Fork dimensions	l/e/s(mm)	1070×100×35	1070×122×40
Backrest width	b3(mm)	1020	1020
Fork outside spread	b5(mm)	232-728	254-750
Support arms inner width	b4(mm)	906	906
Reach distance	l4(mm)	555	613
Ground clearance below mast	m1(mm)	75	75
Aisle width with pallet 1000*1200mm 1200 cross fork	Ast(mm)	2716	2791
Aisle width with pallet 800*1200mm 1200 cross fork	Ast(mm)	2767	2835
Turning radius	Wa(mm)	1647	1747
Overall length (without forks)	l7(mm)	1796	1918
Performance			
Travelling speed, laden/unladen	km/h	14/14	14/14
Lift speed, laden/unladen	m/s	0.33/0.5[4]	0.3/0.5[4]
Lowering speed, laden/unladen	m/s	0.53/0.52	0.53/0.52
Reaching speed forward/backward	m/s	0.2	0.2
Maximum gradeability, full load/no loadε (s2=5min)	%(tanθ)	10	10
Service brake		Hydraulic	Hydraulic
Others			
Battery replacement method		Front pull	Front pull
Noise level at operator's ear	dB(A)	75	75

[1]:When equipped with electromagnetic brakes, the tire width is 115mm, the wheelbase is 1155mm, and the body width is 1270mm; [2]:The free lifting height increases when there is no load backrest; [3]:The maximum lifting height is reduced by 178mm when there is no load backrest; [4]:When equipped with a high-performance fast lifting system, the speed of the 1.6-ton model is 430/550 (mm/s) and the speed of the 2.0-ton model is 400/550 (mm/s); [5]:When equipped with a high-performance fast lifting system, the power is 14kw; [6]:Noise 68dB(A) when equipped with high-performance fast lifting system; [7]:Optional 8kw drive motor is available;

MFZ16H MFZ20H SPECIFICATION			
Characteristics			
Manufacturer		MiMA	MiMA
Model		MFZ16H	MFZ20H
Power type		Battery	Battery
Operation type		Seated	Seated
Operation mode		Electric proportional	Electric proportional
Load capacity	Q(t)	1.6	2
Load center distance	C(mm)	600	600
Distance from fork surface to front wheel center	x(mm)	312	335
Front overhang	x1(mm)	184	205
Wheelbase	y(mm)	1400	1500
Weights			
Service weight (incl. battery)	kg	4120	4346
Axle loading,fork back, unladen front/rear	kg	2453/1467	2552/1794
Axle loading, fork forward, laden front/rear	kg	931/4789	833/5513
Axle loading, fork back, laden front/rear drive/load side	kg	2020/3600	2205/4141
Wheels			
Tire type, front/rear		Polyurethane	Polyurethane
Front wheel size	mm	φ343×120	φ343×120
Rear wheel size	mm	φ300×120[1]	φ343×120[1]
Number of wheels, front/rear (x=driving wheels)		1X / 2	1X / 2
Track width,front	b11(mm)	1170[1]	1170[1]
Dimensions			
Fork tilt angle, front/rear	α/β(°)	2/4	2/4
Mast retracted height	h1(mm)	2820	2820
Free lift height	h2(mm)	1676[2]	1676[2]
Lift height	h3(mm)	6300	6300
Mast extended height (incl. backrest)	h4(mm)	7335[3]	7335[3]
Overhead guard height	h6(mm)	2200	2200
Seat height	h7(mm)	1122	1122
Side shift distance		±50	±50
Support arms height	h8(mm)	320	363
Overall length	l1(mm)	2404	2481
Length to fork face	l2(mm)	1334	1411
Overall width	b1/b2(mm)	1270/1290[1]	1270/1290[1]
Fork dimension	l/e/s(mm)	1070×100×35	1070×122×40
Backrest width	b3(mm)	1020	1020
Fork outside spread	b5(mm)	232-728	254-750
Support arms inner width	b4(mm)	906	906
Reach distance	l4(mm)	496	541
Ground clearance below mast	m1(mm)	75	75
Aisle width with pallet 1000*1200mm 1200 cross fork	Ast(mm)	2760	2843
Aisle width with pallet 800*1200mm 1200 cross fork	Ast(mm)	2821	2900
Turning radius	Wa(mm)	1647	1747
Overall length (without forks)	l7(mm)	1796	1918
Performance			
Travelling speed, laden/unladen	km/h	14/14	14/14
Lift speed, laden/unladen	m/s	0.33/0.5[4]	0.3/0.5[4]
Lowering speed, laden/unladen	m/s	0.53/0.52	0.53/0.52
Reaching speed forward/backward	m/s	0.2	0.2
Maximum gradeability, full load/no loadε (s2=5min)	%(tanθ)	10	10
Service brake		Hydraulic	Hydraulic
Others			
Battery replacement method		Front pull	Front pull
Noise level at operator's ear	dB(A)	75[6]	75[6]

[1]:When equipped with electromagnetic brakes, the tyre width is 115mm, the wheelbase is 1155mm, and the forklift body width is 1270mm; [2]: The free lifting height increases when there is no load backrest; [3]:The maximum lifting height is reduced by 178mm when there is no load backrest; [4]:When equipped with a high-performance fast lifting system, the speed of the 1.6-ton model is 430/550 (mm/s) and the speed of the 2.0-ton model is 400/550 (mm/s); [5]:When equipped with a high-performance fast lifting system, the power is 14kw; [6]:Noise 68dB(A) when equipped with high-performance fast lifting system; [7]:Optional 8kw drive motor is available;

MFZ25M MFZ30M SPECIFICATION			
Characteristics			
Manufacturer		MiMA	MiMA
Model		MFZ25M	MFZ30M
Power type		Battery	Battery
Operation type		Seated	Seated
Operation mode		Electric proportional	Electric proportional
Load capacity	Q(t)	2.5	3
Load center distance	C(mm)	600	600
Distance from fork surface to front wheel center	x(mm)	442	526
Front overhang	x1(mm)	205	205
Wheelbase	y(mm)	1650	1750
Weights			
Service weight (incl. battery)	kg	4760	4800
Axle loading,fork back, unladen front/rear	kg	2938/1822	2990/1810
Axle loading, fork forward, laden front/rear	kg	1022/6238	889/6911
Axle loading, fork back, laden front/rear drive/load side	kg	2832/4428	3043/4757
Wheels			
Tire type, front/rear		Polyurethane	Polyurethane
Tire size, front	mm	φ343×140	φ343×140
Tire size, rear	mm	φ343×130	φ343×130
Wheels,number front/rear (X=driven)		1X / 2	1X / 2
Track width,front	b11(mm)	1170	1170
Dimensions			
Fork tilt angle, front/rear	α/β(°)	2/4	2/4
Mast retracted height	h1(mm)	3636	3636
Free lift height	h2(mm)	2736[1]	2736[1]
Lift height	h3(mm)	8000	8000
Mast extended height (incl. backrest)	h4(mm)	9172[2]	9172[2]
Overhead guard height	h6(mm)	2200	2200
Seat height	h7(mm)	1122	1122
Side shift distance		±50	±50
Support arms height	h8(mm)	363	363
Overall length	l1(mm)	2524	2540
Length to fork face	l2(mm)	1454	1470
Overall width	b1/b2(mm)	1270/1300	1270/1300
Fork dimensions	l/e/s(mm)	1070×125×45	1070×125×45
Backrest width	b3(mm)	1020	1020
Fork outside spread	b5(mm)	250-750	250-750
Support arms inner width	b4(mm)	906	906
Reach distance	l4(mm)	652	736
Ground clearance below mast	m1(mm)	75	75
Aisle width with pallet 1000*1200mm 1200 cross fork	Ast(mm)	2915	2960
Aisle width with pallet 800*1200mm 1200 cross fork	Ast(mm)	2953	2979
Turning radius	Wa(mm)	1896	1996
Overall length (without forks)	l7(mm)	2068	2168
Performance			
Travelling speed, laden/unladen	km/h	10/10	10/10
Lift speed, laden/unladen	m/s	0.28/0.34[3]	0.25/0.34[3]
Lowering speed, laden/unladen	m/s	0.42/0.42	0.42/0.42
Reaching speed forward/backward	m/s	0.2	0.2
Maximum gradeability, full load/no loade (s2=5min)	%(tanθ)	10	10
Service brake		Electromagnetic	Electromagnetic
Others			
Battery replacement method		Front pull	Front pull
Noise level at operator's ear	dB(A)	75[5]	75[5]

[1]:The free lifting height increases when there is no load backrest; [2]:The maximum lifting height is reduced by 311mm when there is no load backrest; [3]:When equipped with a high-performance fast lifting system, the speed of the 2.5-ton model is 320/400 (mm/s) and the speed of the 3.0-ton model is 300/400 (mm/s); [4]: When equipped with a high-performance fast lifting system, the power is 14kw; [5]: Noise 68dB(A) when equipped withhigh-performance fast lifting system; [6]:Optional 8kw drive motor is available;

MFZ16L SPECIFICATION		
Characteristics		
Manufacturer		MiMA
Model		MFZ16L
Power type		Battery
Operation type		Seated
Operation mode		Electric proportional
Load capacity	Q(t)	1.6
Load center distance	C(mm)	600
Distance from fork surface to front wheel center	x(mm)	344
Front overhang	x1(mm)	176
Wheelbase	y(mm)	1400
Weights		
Service weight (incl. battery)	kg	3670
Axle loading,fork back, unladen front/rear	kg	2262/1408
Axle loading, fork forward, laden front/rear	kg	693/4577
Axle loading, fork back, laden front/rear drive/load side	kg	1969/3301
Wheels		
Tire type, front/rear		Polyurethane
Front wheel size	mm	φ285×120
Rear wheel size	mm	φ343×120
Number of wheels, front/rear (x=driving wheels)		1X / 2
Track width,front	b11(mm)	1170
Dimensions		
Fork tilt angle, front/rear	α/β(°)	2/4
Mast retracted height	h1(mm)	3388
Free lift height	h2(mm)	2148
Lift height	h3(mm)	8000
Mast extended height (incl. backrest)	h4(mm)	9040
Overhead guard height	h6(mm)	2200
Seat height	h7(mm)	1068
Side shift distance		±50
Support arms height	h8(mm)	302
Overall length	l1(mm)	2378
Length to fork face	l2(mm)	1038
Overall width	b1/b2(mm)	1270/1270
Fork dimension	l/e/s(mm)	1070×100×35
Backrest width	b3(mm)	1020
Fork outside spread	b5(mm)	232-728
Support arms inner width	b4(mm)	906
Reach distance	l4(mm)	520
Ground clearance below mast	m1(mm)	75
Aisle width with pallet 1000*1200mm 1200 cross fork	Ast(mm)	2736
Aisle width with pallet 800*1200mm 1200 cross fork	Ast(mm)	2792
Turning radius	Wa(mm)	1674
Overall length (without forks)	l7(mm)	1789
Performance		
Travelling speed, laden/unladen	km/h	14/14
Lift speed, laden/unladen	m/s	0.47/0.62
Lowering speed, laden/unladen	m/s	0.53/0.52
Reaching speed forward/backward	m/s	0.2
Maximum gradeability, full load/no loade (s2=5min)	%(tanθ)	10
Service brake		Electromagnetic
Others		
Battery replacement method		Front pull
Noise level at operator's ear	dB(A)	68

LOAD CHART

MFZ16M/MFZ16L: 4600-9500mm; MFZ16H: 4600-10500mm; MFZ20M/MFZ20H: 4600-12500mm;

MODEL	h3 (mm)	5400	5700	6000	6300	6500	6750	7000	7150	7500	8000	8500	9000	9500	10000	10500	10800	11000	11500	12000	12500
MFZ16M (48V420AH) Q (KG)	C=600mm	1600	1600	1600	1600	1600	1550	1500	1500	1400	1300	1200	1050	900	/	/	/	/	/	/	/
	C=700mm	1420	1420	1420	1420	1420	1375	1330	1330	1240	1150	1060	930	800	/	/	/	/	/	/	/
	C=800mm	1250	1250	1250	1250	1250	1210	1170	1170	1090	1010	930	820	700	/	/	/	/	/	/	/
	C=900mm	1040	1040	1040	1040	1040	1000	970	970	910	840	780	680	580	/	/	/	/	/	/	/
	C=1000mm	900	900	900	900	900	870	840	840	780	730	670	590	500	/	/	/	/	/	/	/
MFZ16H (48V560AH) Q (KG)	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	1280	1200	1100	1010	880	840	700	/	/	/	/	/
	C=800mm	1250	1250	1250	1250	1250	1250	1210	1210	1130	1050	970	900	780	740	620	/	/	/	/	/
	C=900mm	1040	1040	1040	1040	1040	1040	1000	1000	940	870	810	740	650	610	520	/	/	/	/	/
	C=1000mm	900	900	900	900	900	900	870	870	810	760	700	640	560	530	450	/	/	/	/	/
MFZ20M (48V560AH) Q (KG)	C=600mm	2000	1950	1900	1850	1800	1750	1700	1700	1600	1500	1350	1200	1100	1050	900	800	750	700	650	600
	C=700mm	1780	1730	1690	1640	1600	1550	1510	1510	1420	1330	1200	1060	970	930	800	710	660	620	570	530
	C=800mm	1570	1530	1490	1450	1410	1370	1330	1330	1250	1170	1060	940	860	820	700	620	580	550	510	470
	C=900mm	1310	1270	1240	1210	1180	1140	1110	1110	1050	980	880	780	720	680	590	520	490	450	420	390
	C=1000mm	1130	1100	1070	1050	1020	990	960	960	900	850	760	680	620	590	510	450	420	390	360	340
MFZ20H (48V700AH) Q (KG)	C=600mm	2000	2000	2000	2000	1950	1850	1800	1800	1650	1600	1450	1350	1300	1200	1100	1050	1000	950	850	800
	C=700mm	1780	1780	1780	1780	1730	1640	1600	1600	1460	1420	1280	1200	1150	1060	970	930	890	840	750	710
	C=800mm	1570	1570	1570	1570	1530	1450	1410	1410	1290	1250	1130	1050	1020	940	860	820	780	740	660	620
	C=900mm	1310	1310	1310	1310	1270	1210	1180	1180	1080	1050	950	880	850	780	720	680	650	620	550	520
	C=1000mm	1130	1130	1130	1130	1100	1050	1020	1020	930	900	820	760	730	680	620	590	560	530	480	450
MFZ25M/MFZ30M: 3600-8500mm;																					
MODEL	h3 (mm)	3300注[2]	3600	4000	4300	4600	4800	5400	5700	6000	6300	6500	6750	7000	7150	7500	8000	8500	/	/	/
MFZ25M (48V700AH) Q (KG)	C=500mm	2500	2500	2500	2500	2500	2450	2400	2380	2350	2310	2250	2200	2100	2100	1930	1850	1700	/	/	/
	C=600mm	2500	2300	2190	2190	2190	2145	2100	2080	2060	2020	1970	1925	1840	1840	1690	1620	1490	/	/	/
	C=700mm	2225	2045	1950	1950	1950	1910	1870	1850	1830	1800	1750	1715	1635	1635	1500	1440	1320	/	/	/
	C=800mm	1800	1750	1720	1720	1720	1685	1650	1635	1615	1585	1545	1510	1445	1445	1330	1270	1170	/	/	/
	C=900mm	1550	1515	1435	1435	1435	1400	1380	1365	1350	1325	1290	1260	1205	1205	1110	1060	975	/	/	/
	C=1000mm	1420	1390	1315	1315	1315	1290	1260	1250	1235	1215	1185	1160	1105	1105	1015	975	895	/	/	/
MFZ30M (48V700AH) Q (KG)	C=500mm	3000	3000	3000	3000	2750	2600	2500	2450	2400	2350	2300	2250	2150	2150	2000	1900	1750	/	/	/
	C=600mm	3000	2625	2625	2625	2405	2275	2190	2145	2100	2060	2010	1970	1880	1880	1750	1665	1530	/	/	/
	C=700mm	2670	2335	2335	2335	2140	2025	1950	1910	1870	1830	1790	1750	1675	1675	1560	1480	1360	/	/	/
	C=800mm	2160	2000	2000	2000	1890	1785	1720	1685	1650	1615	1585	1545	1480	1480	1375	1305	1200	/	/	/
	C=900mm	1860	1720	1720	1720	1580	1490	1435	1400	1380	1350	1325	1290	1235	1235	1150	1090	1005	/	/	/
	C=1000mm	1700	1490	1490	1490	1450	1370	1315	1290	1260	1235	1215	1185	1130	1130	1050	1000	920	/	/	/

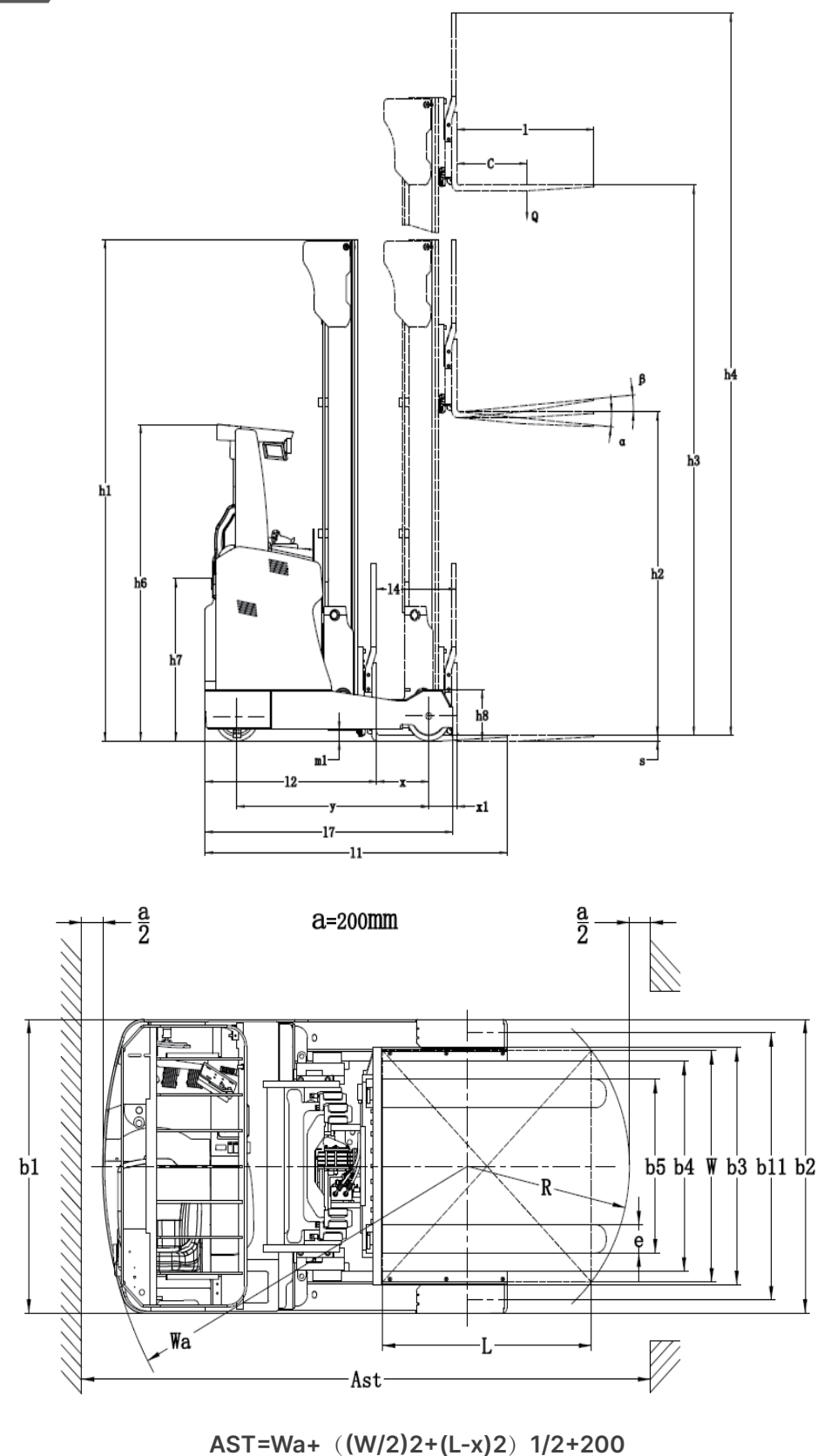
Note [1]: The loss-load height for the MFZ20S model is 4800mm.

Note [2]: 3300mm is only a parameter for the loss-load height and there is no model with this height in practice;

LOAD CHART														
MFZ16S/MFZ20S: 4000-8000mm; MFZ16D/MFZ20D: 4000-8000mm;														
Model	h3 (mm)	4000	4500	4800	5000	5500	6000	6300	6500	6800	7000	7200	7500	8000
MFZ16S (48V420AH) Q (kg)	C=600mm	1600	1600	1600	1600	1600	1600	1600	1550	1500	1500	1400	1300	1200
	C=700mm	1420	1420	1420	1420	1420	1420	1420	1375	1330	1330	1240	1150	1060
	C=800mm	1250	1250	1250	1250	1250	1250	1250	1210	1170	1170	1090	1010	930
	C=900mm	1040	1040	1040	1040	1040	1040	1040	1000	970	970	910	840	780
	C=1000mm	900	900	900	900	900	900	900	870	840	840	780	730	670
MFZ16D (48V420AH) Q (kg)	C=600mm	1600	1600	1600	1600	1600	1600	1600	1600	1550	1500	1500	1400	1300
	C=700mm	1420	1420	1420	1420	1420	1420	1420	1420	1375	1330	1330	1240	1150
	C=800mm	1250	1250	1250	1250	1250	1250	1250	1250	1210	1170	1170	1090	1010
	C=900mm	1040	1040	1040	1040	1040	1040	1040	1040	1000	970	970	910	840
	C=1000mm	900	900	900	900	900	900	900	900	870	840	840	780	730
MFZ20S (48V560AH) Q (kg)	C=600mm	2000	2000	2000	2000	1900	1800	1750	1700	1700	1600	1550	1450	1350
	C=700mm	1780	1780	1780	1780	1690	1600	1550	1510	1510	1420	1370	1280	1200
	C=800mm	1570	1570	1570	1570	1490	1410	1370	1330	1330	1250	1210	1130	1050
	C=900mm	1310	1310	1310	1310	1240	1180	1140	1110	1110	1050	1000	940	870
	C=1000mm	1130	1130	1130	1130	1070	1020	990	960	960	900	870	810	760
MFZ20D (48V560AH) Q (kg)	C=600mm	2000	2000	2000	2000	2000	1900	1850	1800	1750	1700	1700	1600	1500
	C=700mm	1780	1780	1780	1780	1780	1690	1640	1600	1550	1510	1510	1420	1330
	C=800mm	1570	1570	1570	1570	1570	1490	1450	1410	1370	1330	1330	1250	1170
	C=900mm	1310	1310	1310	1310	1310	1240	1210	1180	1140	1110	1110	1050	980
	C=1000mm	1130	1130	1130	1130	1130	1070	1050	1020	990	960	960	900	850

MAST SPECIFICATION															
MFZ16S/MFZ20S: 4000-8000mm; MFZ16D/MFZ20D: 4000-8000mm;												Triplex full free mast			
Lifting height	h3(mm)	4000	4500	4800	5000	5500	6000	6300	6500	6800	7000	7200	7500	8000	
Mast extended height (incl.backrest)	h4(mm)注[1]	5130	5630	5930	6130	6630	7130	7430	7630	7930	8130	8330	8630	9130	
Mast closed height	h1(mm)	2053	2220	2320	2387	2554	2720	2820	2887	2987	3153	3220	3320	3487	
Free lift height (incl.backrest)	h2(mm)	953	1120	1220	1287	1453	1620	1720	1787	1887	2053	2120	2220	2387	
Free lift height (excl.backrest)	h2(mm)	1403	1570	1670	1737	1903	2070	2170	2237	2337	2303	2370	2470	2637	
MFZ16M: 4600-9500mm; MFZ16H: 4600-10500mm; MFZ20M/MFZ20H: 4600-12500mm;												Triplex full free mast			
Lifting height	h3(mm)	4600	4800	5400	5700	6000	6300	6500	6750	7000	7150	7500	8000	8500	9000
Mast extended height (incl.backrest)	h4(mm)注[1]	5635	5835	6435	6735	7035	7335	7535	7785	8035	8185	8535	9035	9535	10035
Mast closed height	h1(mm)	2253	2320	2520	2620	2720	2820	2887	3070	3153	3203	3319	3486	3653	3920
Free lift height (incl.backrest)	h2(mm)	1108	1176	1376	1476	1576	1676	1744	1926	2008	2058	2172	2340	2508	2845
Free lift height (excl.backrest)	h2(mm)	1108	1176	1376	1476	1576	1676	1744	1926	2008	2058	2172	2340	2508	2876
MFZ16M: 4600-9500mm; MFZ16H: 4600-10500mm; MFZ20M/MFZ20H: 4600-12500mm;															
Lifting height	h3(mm)	9500	10000	10500	10800	11000	11500	12000	12500						
Mast extended height (incl.backrest)	h4(mm)注[1]	10535	11035	11535	11835	12035	12535	13035	13535						
Mast closed height	h1(mm)	4086	4253	4420	4520	4586	4753	4920	5086						
Free lift height (incl.backrest)	h2(mm)	3011	3178	3345	3445	3511	3678	3845	4011						
Free lift height (excl.backrest)	h2(mm)	3040	3208	3376	3476	3540	3708	3876	4040						
注[1]: When lifting, the maximum height of the mast includes the height of load backrest. When the standard load backrest is not included, 178mm needs to be subtracted;															
MFZ25M/MFZ30M: 3600-8500mm;												Triplex full free mast			
Lifting height	h3(mm)	3600	4000	4300	4600	4800	5400	5700	6000	6300	6500	6750	7000	7150	7500
Mast extended height (incl.backrest)	h4(mm)注[2]	4772	5172	5472	5772	5972	6572	6872	7172	7472	7672	7922	8172	8322	8672
Mast closed height	h1(mm)	2070	2203	2303	2403	2470	2670	2770	2870	2970	3037	3220	3303	3353	3469
Free lift height (incl.backrest)	h2(mm)	858	991	1091	1191	1258	1458	1558	1658	1758	1825	2008	2091	2141	2257
Free lift height (excl.backrest)	h2(mm)	1168	1302	1402	1502	1568	1768	1868	1968	2068	2135	2218	2402	2452	2570
MFZ25M/MFZ30M: 3600-8500mm;															
Lifting height	h3(mm)	8000	8500												
Mast extended height (incl.backrest)	h4(mm)注[2]	9172	9672												
Mast closed height	h1(mm)	3636	3803												
Free lift height (incl.backrest)	h2(mm)	2424	2591												
Free lift height (excl.backrest)	h2(mm)	2736	2902												
注[2]: When lifting, the maximum height of the mast includes the height of load backrest. When the standard load backrest is not included, 312mm needs to be subtracted;															
MFZ16L: 4600-9500mm;												Triplex full free mast			
Lifting height	h3(mm)	4600	4800	5400	5700	6000	6300	6500	6750	7000	7150	7500	8000	8500	9000
Mast extended height (incl.backrest)	h4(mm)	5640	5840	6440	6740	7040	7340	7540	7790	8040	8190	8540	9040	9540	10040
Mast closed height	h1(mm)	2154	2220	2420	2520	2620	2720	2786	2970	3054	3104	3222	3388	3554	3720
Free lift height (incl.backrest)	h2(mm)	914	980	1180	1280	1380	1480	1547	1730	1813	1863	1982	2149	2314	2480
MFZ16L: 4600-9500mm;															
Lifting height	h3(mm)	9500													
Mast extended height (incl.backrest)	h4(mm)	10540													
Mast closed height	h1(mm)	3888													
Free lift height (incl.backrest)	h2(mm)	2648													

2D VIEW



$$AST=Wa+ ((W/2)^2+(L-x)^2)^{1/2}+200$$

1994

MORE THAN 30 YEARS OF
FORKLIFT HISTORY

700+

EMPLOYEES

50+

NATIONAL INVENTION PATENTS

72000m²

TOTAL AREA

Founded in 1994, Banyitong Science & Technology Developing Co., Ltd. is a high-tech enterprise specializing in designing and manufacturing high-end electric material handling equipment. The company covers an area of 72,000 square meters with 700 employees. We are one of the first batch of national "SRDI" (Specialization, Refinement, Differentiation, Innovation) small giant enterprises in Anhui Province, with a highly qualified R&D team of over 100 engineers. We're also an industrial technology R&D center in Anhui province.

"MiMA", our product brand, is interpreted as Min. Space, Max. Performance! We aim to create more excellent value for customers through our professional products and realize more fantastic dreams together with our customers.

info@carretillasintertrac.com

