

MiMA

MFZ SERIES - 1.6-3.0 TONNE
ELECTRIC SEATED REACH TRUCK



MFZ SERIES - 1.6-3.0 Tonne Electric Seated Reach Truck

The MiMA MFZ Series Electric Seated Reach Truck is engineered for optimal performance in narrow aisle warehouses and storage facilities. Its compact design and advanced features make it ideal for operations requiring precision and efficiency.



Load Capacity: 1,600-3,000 kg

Standard Lift Height: 3,000-6,000 mm

Compact Design: Optimized for superior maneuverability in narrow aisles and tight spaces.

Advanced AC Drive System: Ensures efficient performance with reduced maintenance requirements.

Curtis Control System: Enhances operational stability and safety.

Ergonomic Operator Compartment: Features an adjustable seat and intuitive controls for operator comfort.

Four-Wheel Braking: Provides enhanced braking performance, suitable for wet and frozen ground conditions.

Wide-View Mast: Offers improved visibility for precise load handling and increased safety.



2 Year Battery
Warranty



2 Year
Warranty



30 Days Money
Back Guarantee



Service Contracts
Available



**MK SERIES - T1.5-4.0 TONNE 4-WHEEL
ELECTRIC COUNTERBALANCE FORKLIFT**

SAFETY

Equipped with four-wheel braking, including front and back wheel braking, the MFZ Series ensures enhanced safety during operation, especially on wet and frozen ground. The wide-view mast design improves visibility, reducing the risk of accidents during loading and unloading tasks.

Technical Info:

- Load Capacity: 1,600-3,000 kg
- Load Center: 500 mm
- Lift Height: 3,000-6,000 mm
- Turning Radius: 1,700-1,872 mm
- Travel Speed (laden/unladen): 8.5/10 km/h
- Battery Voltage: 48V
- Service Weight (with battery): 3,250-4,670 kg

INNOVATION

The MFZ Series features a compact structure with a small turning radius, allowing for superior maneuverability in tight spaces. The mast can move forward or backward as a whole, enhancing operational efficiency. The maintenance-free AC drive system ensures reliable performance and reduces operational costs.



EFFICIENCY

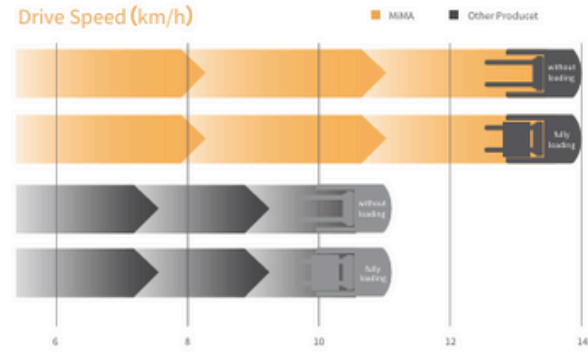
Engineered for maximum efficiency, the MFZ Series features a compact structure that allows for flexible operation in environments like narrow aisles. Its lightweight design contributes to energy savings, while the maintenance-free AC drive motor ensures consistent performance with minimal downtime.

MAINTENANCE

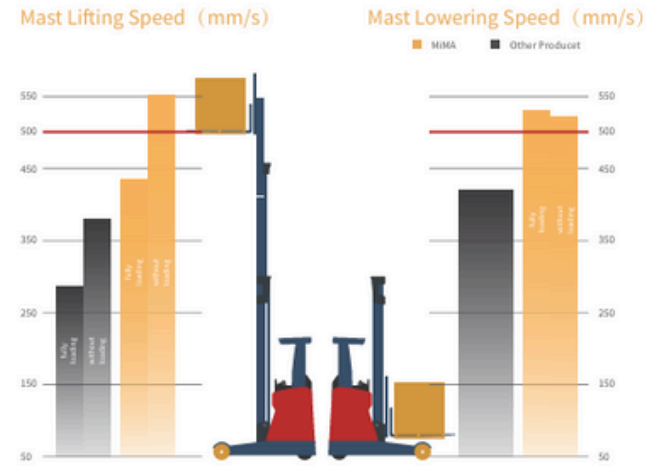
Designed with minimal maintenance requirements, the MFZ Series features a maintenance-free AC motor system, reducing the need for regular servicing. Its durable components are built to withstand daily use, and easy access to critical parts ensures that routine inspections and repairs are straightforward, minimizing overall maintenance costs.

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.

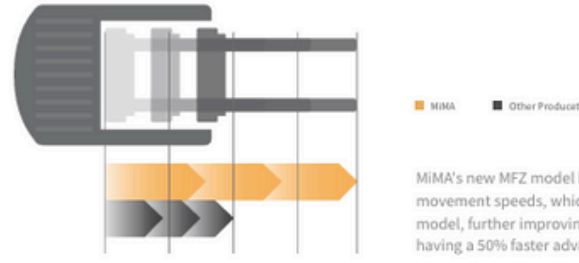


The productivity advantage of MiMA's new MFZ model comes first and foremost from the faster driving speed, which can work faster. The driving speed is up to 14km/h, which is 30% faster than other products' speed of 11 km/h.

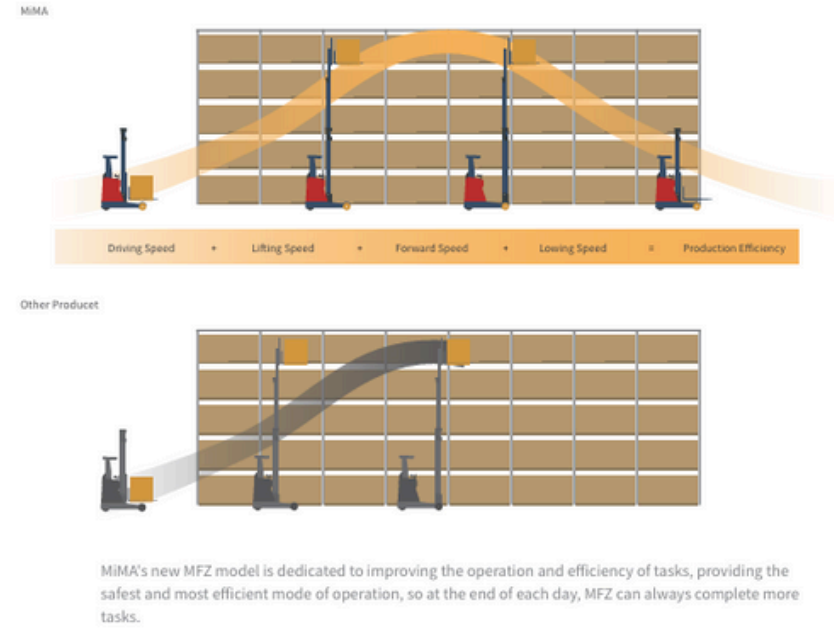


When fully loaded, the lifting speed of the mast is 15% faster than other models, and the descending speed is 20% faster.

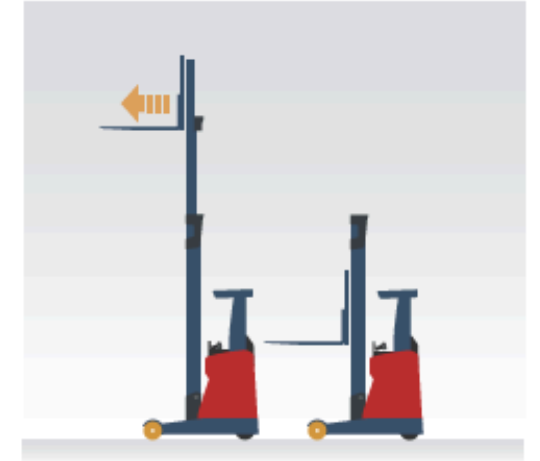
Forward and Backward Speed (mm/s)



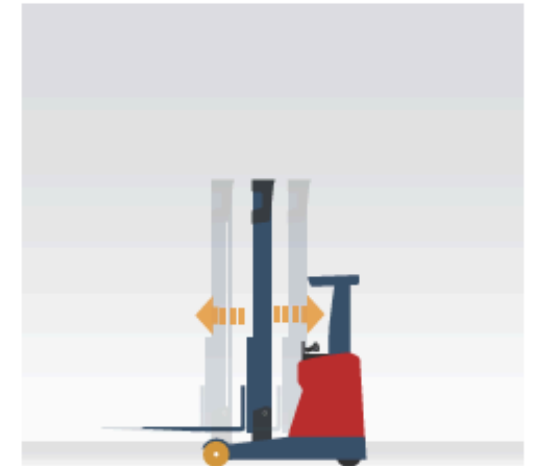
Advantages of Productivity



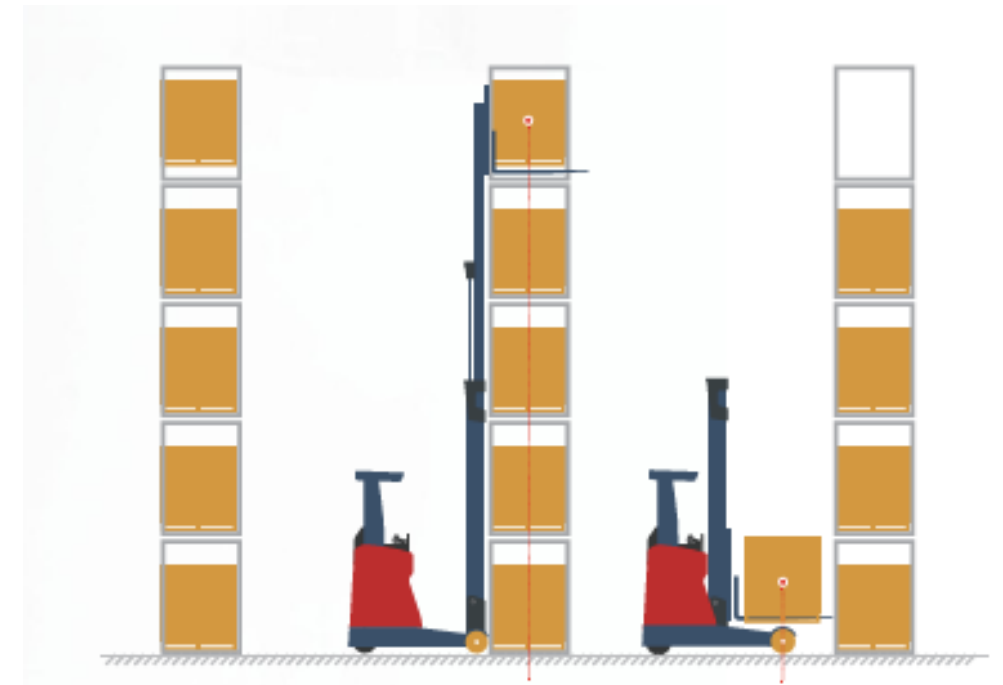
Shake Distance Reduced 60%~70%
Shake Time Reduced 50%~80%



High Lift Deceleration



Forward and Backward End Deceleration



Standard			
1.1	Brand	MiMA	MiMA
1.2	Model	MFZ16M	MFZ20M
1.3	Power type	Battery	Battery
1.4	Operation type	Seated	Seated
1.5	Rated capacity	1600	2000
1.6	Load center	600	600
1.7	Distance from fork surface to front wheel center	364	407
1.8	Front overhang	184	205
1.9	Wheelbase	1400	1500
Weight			
2.1	Vehicle weight (including battery)	kg	3700
2.2	Vehicle weight (including battery)	kg	4131
2.3	Axle capacity with no load, drive side/load side	kg	2309/1391
2.4	Axle capacity with full load when fork forward, drive side/load side	kg	799/4501
2.5	Axle capacity with full load when fork backward, drive side/load side	kg	2042/3258
2.6	Axle capacity with full load when fork backward, drive side/load side	kg	2196/3761
Wheel			
3.1	Wheel type, Drive wheel/Load wheel	PU/PU	PU/PU
3.2	Size, load wheel	mm	φ300×120[1]
3.3	Size, drive wheel	mm	φ343×120
3.4	Number of wheels, front/rear(=drive wheel)	2/ 1X	2/ 1X
3.5	Wheel tread, load side	b11(mm)	1170[1]
Size			
4.1	Fork tilt range, front/rear	α/β[°]	2/4
4.2	Mast closed height	h1(mm)	2253
4.3	Free lift height	h2(mm)	1013[2]
4.4	Lift height	h3(mm)	4600
4.5	Mast extended height with load-backrest	h4(mm)	5800[3]
4.6	Overhead guard height	h5(mm)	2200
4.7	Overhead guard height	h6(mm)	2200
4.8	Seat height	h7(mm)	1122
4.9	Lateral travel	±50	±50
4.10	Leg height	h8(mm)	320
4.11	Overall length	l1(mm)	2354
4.12	Distance to fork surface	l2(mm)	1275
4.13	Distance to fork surface	l2(mm)	1339
4.21	Overall width	b1,b2(mm)	1270/1290[1]
4.22	Fork size	l/e/s(mm)	1070×100×35
4.23	Fork size	l/e/s(mm)	1070×122×40
4.24	Overhead guard width	b3(mm)	1024
4.25	Fork outside width	b5(mm)	232-728
4.26	Inner leg width	b4(mm)	890
4.27	Inner leg width	b4(mm)	890
4.28	Reach stroke	l4(mm)	555
4.29	Reach stroke	l4(mm)	613
4.31	Mast ground clearance	m1(mm)	75
4.32	Mast ground clearance	m1(mm)	75
4.34.1	Aisle width for pallet 1000* 1200mm(C=500mm)	Ast1(mm)	2716
4.34.2	Aisle width for pallet 800* 1200mm(C=600mm)	Ast2(mm)	2767
4.35	Turning radius	Wa(mm)	1647
4.36	Turning radius	Wa(mm)	1747
4.37	Overall length (excluding fork)	l7(mm)	1796
4.38	Overall length (excluding fork)	l7(mm)	1918
Function			
Function			
5.1	Driving speed(load/unload)	km/h	14/14
5.2	Lifting speed(load/unload)	mm/s	430/550
5.3	Lowering speed(load/unload)	mm/s	530/520
5.4	Mast movement speed, forward/retract	mm/s	200
5.5	Mast movement speed, forward/retract	mm/s	200
5.8	Max. Grade ability(load/unload)(S2-5min)	%(tanθ)	10
5.9	Max. Grade ability(load/unload)(S2-5min)	%(tanθ)	10
5.10	Brake type	Hydraulic	Hydraulic
Motor			
6.1	Driving motor(S2-60min)	kw	8.0
6.2	Lifting motor(S3-15%)	kw	14
6.3	Steering motor power (S2-60min)	kw	0.6
6.4	Battery voltage/capacity	V/Ah	48/420
6.5	Lithium battery voltage/capacity (optional)	V/Ah	48/300
6.6	Battery weight	kg	715
6.7	Battery weight	kg	920
Other			
7.1	Battery replacement type	Hoist	Hoist
8.4	Noise	dB(A)	68

[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 shelf without gear is reduced by 340mm.

Standard			
1.1	Brand	MiMA	MiMA
1.2	Model	MFZ16H	MFZ20H
1.3	Power type	Battery	Battery
1.4	Operation type	Seated	Seated
1.5	Rated capacity	Q(kg)	1600
1.6	Load center	C(mm)	600
1.7	Distance from fork surface to front wheel center	x(mm)	307
1.8	Front overhang	x1(mm)	184
1.9	Wheelbase	y(mm)	1400
1.10	Wheelbase	y(mm)	1500
Weight			
2.1	Vehicle weight (including battery)	kg	4120
2.2	Vehicle weight (including battery)	kg	4346
2.3	Axle capacity with no load, drive side/load side	kg	2453/1467
2.4	Axle capacity with full load when fork forward, drive side/load side	kg	931/4789
2.5	Axle capacity with full load when fork backward, drive side/load side	kg	2020/3600
2.6	Axle capacity with full load when fork backward, drive side/load side	kg	2205/4141
Wheel			
3.1	Wheel type, Drive wheel/Load wheel	PU/PU	PU/PU
3.2	Size, load wheel	mm	φ300×120[1]
3.3	Size, drive wheel	mm	φ343×120
3.4	Number of wheels, front/rear(=drive wheel)	2/ 1X	2/ 1X
3.5	Wheel tread, load side	b11(mm)	1170[1]
Size			
4.1	Fork tilt range, front/rear	α/β[°]	2/4
4.2	Mast closed height	h1(mm)	2820
4.3	Free lift height	h2(mm)	1580[2]
4.4	Lift height	h3(mm)	6300
4.5	Mast extended height with load-backrest	h4(mm)	7500[3]
4.6	Overhead guard height	h5(mm)	2200
4.7	Overhead guard height	h6(mm)	2200
4.8	Seat height	h7(mm)	1122
4.9	Lateral travel	±50	±50
4.10	Leg height	h8(mm)	320
4.11	Overall length	l1(mm)	2404
4.12	Distance to fork surface	l2(mm)	1334
4.13	Distance to fork surface	l2(mm)	1411
4.21	Overall width	b1,b2(mm)	1270/1290[1]
4.22	Fork size	l/e/s(mm)	1070×100×35
4.23	Fork size	l/e/s(mm)	1070×122×40
4.24	Overhead guard width	b3(mm)	1024
4.25	Fork outside width	b5(mm)	232-728
4.26	Inner leg width	b4(mm)	890
4.27	Inner leg width	b4(mm)	890
4.28	Reach stroke	l4(mm)	496
4.29	Reach stroke	l4(mm)	541
4.31	Mast ground clearance	m1(mm)	75
4.32	Mast ground clearance	m1(mm)	75
4.34.1	Aisle width for pallet 1000* 1200mm(C=500mm)	Ast1(mm)	2760
4.34.2	Aisle width for pallet 800* 1200mm(C=600mm)	Ast2(mm)	2821
4.35	Turning radius	Wa(mm)	1647
4.36	Turning radius	Wa(mm)	1747
4.37	Overall length (excluding fork)	l7(mm)	1796
4.38	Overall length (excluding fork)	l7(mm)	1918
Function			
Function			
5.1	Driving speed(load/unload)	km/h	14/14
5.2	Lifting speed(load/unload)	mm/s	430/550
5.3	Lowering speed(load/unload)	mm/s	530/520
5.4	Mast movement speed, forward/retract	mm/s	200
5.5	Mast movement speed, forward/retract	mm/s	200
5.8	Max. Grade ability(load/unload)(S2-5min)	%(tanθ)	10
5.9	Max. Grade ability(load/unload)(S2-5min)	%(tanθ)	10
5.10	Brake type	Hydraulic	Hydraulic
Motor			
6.1	Driving motor(S2-60min)	kw	8.0
6.2	Lifting motor(S3-15%)	kw	14
6.3	Steering motor power (S2-60min)	kw	0.4
6.4	Battery voltage/capacity	V/Ah	48/560
6.5	Lithium battery voltage/capacity (optional)	V/Ah	48/300
6.6	Battery weight	kg	715
6.7	Battery weight	kg	920
Other			
7.1	Battery replacement type	Hoist	Hoist
8.4	Noise	dB(A)	68

[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 shelf without gear is reduced by 340mm.

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
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	1770	1730	1690	1640	1600	1550	1500	1500	1420	1330	1200	1060	970	930	800	700	660	620	570	530
	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
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	1770	1770	1770	1770	1730	1640	1600	1600	1460	1420	1300	1200	1150	1060	970	970	890	840	750	700
	C=800mm	1600	1600	1600	1600	1560	1480	1440	1440	1320	1280	1160	1080	1040	960	880	880	700	700	680	640
	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
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	1370	1330	1330	1240	1150	1060	970	890	/	/	/	/	/	/	/
	C=800mm	1280	1280	1280	1280	1280	1240	1200	1200	1120	1040	960	880	700	/	/	/	/	/	/	/
	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	/	/	/	/	/	/	/
MFZ16H (48V560AH) Q (kg)	C=600mm	1600	1600	1600	1600	1600	1550	1550	1450	1350	1250	1150	1000	950	800	/	/	/	/	/	/
	C=700mm	1420	1420	1420	1420	1420	1370	1370	1300	1200	1100	1020	890	840	700	/	/	/	/	/	/
	C=800mm	1280	1280	1280	1280	1280	1240	1240	1160	1080	1000	920	700	760	640	/	/	/	/	/	/
	C=900mm	950	950	950	950	950	920	920	950	880	800	690	600	560	520	/	/	/	/	/	/
	C=1000mm	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	MFZ16	16T-46	16T-48	16T-54	16T-57	16T-60	16T-63	16T-65	16T-67	16T-70	16T-71	16T-75	16T-80	16T-85	16T-90	16T-95	16T-100	16T-105
Lift Height	h3(mm)	4600	4800	5400	5700	6000	6300	6500	6750	7000	7150	7500	8000	8500	9000	9500	10000	10500
Mast extended height with load backrest	h4(mm)[1]	5800	6000	6600	6900	7200	7500	7700	7950	8200	8350	8700	9200	9700	10200	10700	11200	11700
Mast closed height	h1(mm)	2253	2320	2520	2620	2720	2820	2887	3070	3153	3203	3319	3486	3653	3920	4086	4253	4420

Mast closed height	h1(mm)	2253	2320	2520	2620	2720	2820	2887	3070	3153	3203	3319	3486	3653	3920	4086	4253	4420
Free lift height (including load backrest)	h2(mm)	1013	1080	1280	1380	1480	1580	1647	1830	1913	1963	2079	2246	2413	2680	2846	3013	3180
Free lift height (excluding load backrest)	h2(mm)	1118	1186	1386	1486	1586	1686	1754	1936	2018	2068	2182	2350	2518	2886	3050	3218	3386

Triplex full free mast MFZ20M: 4600-12500mm; MFZ20H: 4600-12500mm;

Model	MFZ20	20T-46	20T-48	20T-54	20T-57	20T-60	20T-63	20T-65	20T-67	20T-70	20T-71	20T-75	20T-80	20T-85	20T-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	8500	9000	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	9700	10200	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	3653	3920	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	2413	2680	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	2518	2886	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.

