

V202511-EN

MiMA[®]
Min. Space Max. Performance

BANYITONG SCIENCE & TECHNOLOGY DEVELOPING CO.,LTD.

Since 1994

Electric Articulated Forklift

MJ20&30
MJD25 Series

Max. lift height: 12500mm

MiMA[®]
Min Space,Max Performance



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Efficient Indoor & Outdoor One-Stop Handling, Narrow Aisle Expert

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IS YOUR WAREHOUSE FACING THESE CHALLENGES AND CONSIDERING AN ARTICULATED FORKLIFT?



WASTED SPACE

Inefficient shelving layout makes VNA operation difficult.



HIGH-SHELF HANDLING ISSUES

Need more precise control and strong lifting capabilities for high-level stacking.



LACK OF VERSATILITY

Poor performance when switching between indoor and outdoor environments.



NEED FOR CUSTOMIZATION

Standard equipment often fails to meet your specific industry demands.

MIMA VERSATILE FORKLIFT THAT COMBINES POWER, EFFICIENCY, AND ADAPTABILITY

For those companies looking for a VNA machine suitable for both indoors and outdoors, which offers ergonomic comfort and easy operation, MiMA Forklift provides you with a VNA Articulated Truck Solution.

MiMA MJ Series has great climbing and reach capabilities to optimize efficiency, performance, and productivity suited for multiple working environments. And all customized options are based on your unique needs.

- Suitable tyres for indoor and outdoor one-stop use
- Exceptional climbing power, long endurance, cost-saving, and reliability
- Excellent ergonomics, enhanced safety, quality design and manufacturing processes
- 210° Swing mast for easy operation and flexible stacking of goods in the VNA



YOUR RELIABLE CHOICE MIMA ARTICULATED FORKLIFT

ONE TRUCK, MULTIPLE APPLICATIONS

Replace multiple machines with just one MiMA articulated forklift, saving on equipment and labor costs.

MAXIMIZED WAREHOUSE SPACE

By reducing aisle widths and optimizing layouts, MiMA articulated forklifts significantly increase warehouse storage capacity, making the most of your existing space.

HIGH PERFORMANCE & LOW OPERATING COSTS

MiMA articulated forklifts are energy-efficient, offering low maintenance costs and high uptime.

CUSTOMIZED SOLUTIONS

Multiple configuration options and customized solutions engineered to meet your industry-specific requirements.



TARGET INDUSTRIES

For a reliable, cost-effective, and high-performance forklift, MiMA's MJ Series articulated forklift provides the best solution for narrow aisle and high-density storage applications. Maximize your warehouse space, improve efficiency, and reduce costs with MiMA advanced technology.



Retail and Logistics



Textile Industry



Food and Beverage Industry



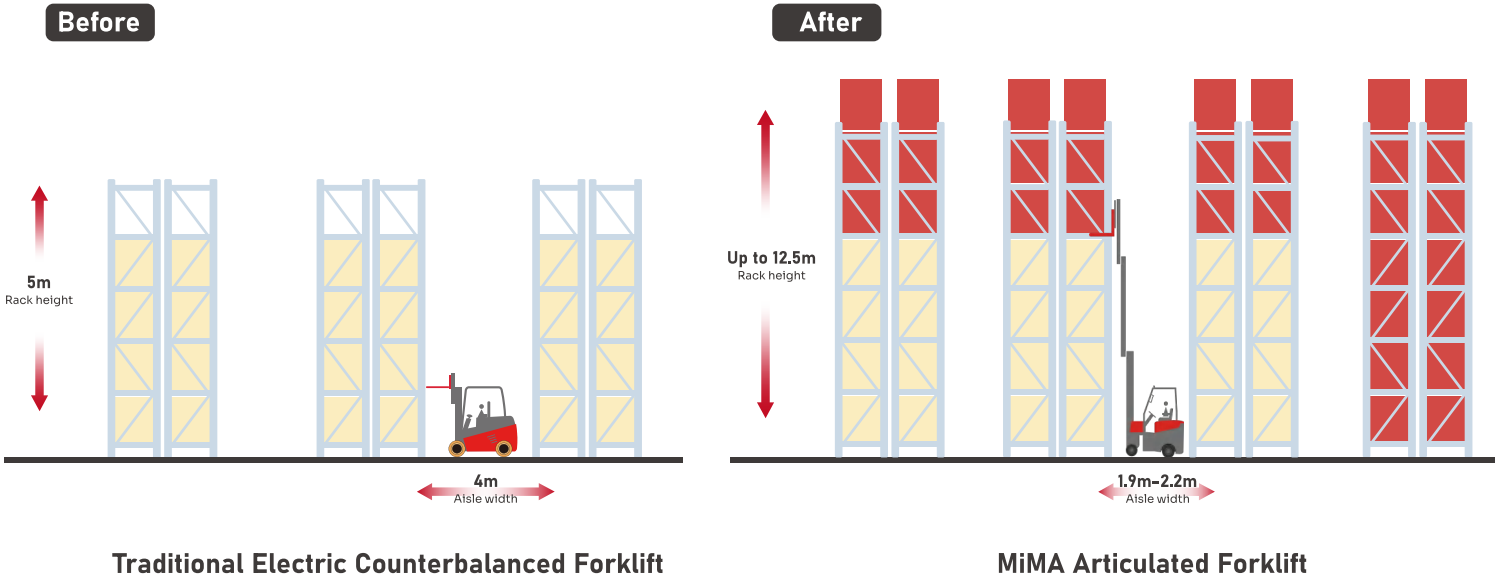
Cold and Ambient Storage Cycling

ADVANTAGES COMPARISON

MJ articulated forklift has the efficiency of a counterbalanced forklift and the same reach capacity as a reach truck. The articulated forklift can perform all operations within a narrow aisle, reducing transfer time and improving efficiency. One MiMA Articulated truck is enough, bringing your operators a one-stop driving experience.

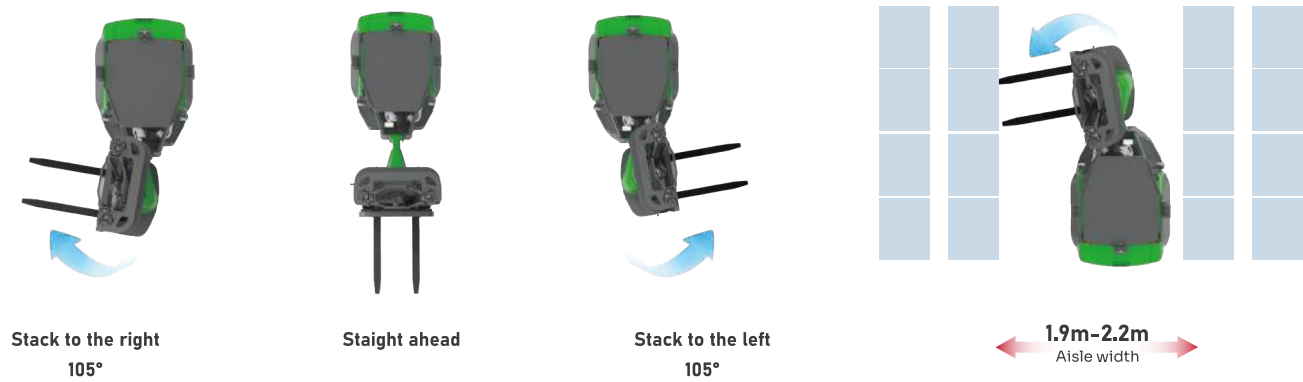
- **Narrow Aisles and High-Density Storage**

- With a 1.9-meter aisle width, it is ideal for high-density storage in narrow aisles. By optimizing rack layouts and increasing height, it improves warehouse capacity by **over 50%** compared to traditional counterbalanced forklifts.



- **Works in Aisles Narrow as 1.9m**

- Its flexible steering(articulated fork) allows precise stacking and material handling in tight spaces, making it suitable for logistics centers and distribution warehouses. The MJ series saves more storage space, **offering a 30% increase** in warehouse capacity.



- **Indoor and Outdoor Operations**

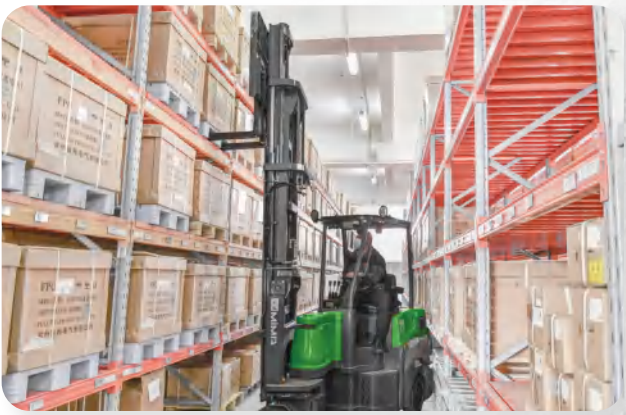
- Combines the stability of counterbalanced forklifts with the agility of reach trucks. Suitable for both indoor and outdoor operations that require frequent cross-regional work. reducing the need for equipment switching.



Outdoor

- **Heavy Lifting and High Reach**

- Designed for handling heavy loads and reaching high positions, such as stacking finished products or shelving raw materials.



FRONT-DRIVEN VS REAR-DRIVEN

For Your Multiple Requests

The newly developed MJ Series comes with a maximum load capacity of 2000kg to 3,000kg, and max. lifting height up to 12500mm. It is available in both narrow and wide-body designs for your various rack layout needs.

MJ20/30 ▶

MJ20/30 are primarily designed for efficient operations in narrow aisles, with more options in load capacity including 2-ton and 3-ton, and lift heights up to 12.5 meters. MJ30 offers a higher rated load and is ideal for medium-heavy work environments. They're both cost-effective choices for stacking and transport, improving performance and cutting down on costs.

Key Specs ▶

Mast type	
Triplex full free mast	
Drive type	Swing angle
Front-driven	210°
Max. Lift height	Load Capacity
12500/8000mm	2000/3000kg



◀ MJD25

The MJD25 offers both power and flexibility for a wide range of tasks. It features an advanced four-stage mast, making it ideal for container loading, unloading, and tight spaces. With better visibility and a more compact profile, it is built for high transport rates in both indoor and outdoor environments.

◀ Key Specs

Mast type	
Quad full free mast	
Drive type	Swing angle
Rear-driven	180°
Max. Lift height	Load Capacity
8000mm	2500kg

KEY FEATURES

MIMA provides a comprehensive solution with advanced technology, ensuring unmatched safety, precision, and efficiency in every operation.

● Power Meets MiMA Reliability

- Equipped with a **full AC system**, the MJ Series ensures maintenance-free operation and efficient performance.
- Advanced **Curtis controllers** and high-efficiency motors offer a smooth and stable driving experience, precise lifting, and energy savings.

● Ergonomic Comfort for Operators

- Innovative designs like **wide-view masts** and ergonomic controls allow operators to work faster with improved visibility and safety.
- **Adjustable seats** and **steering wheels** fit operators into their optimal driving positions, reducing fatigue.

● Gain Flexibility, Reduce Costs

- The articulated mast swing angle reaches up to **210°**, enabling superior maneuverability in tight spaces and narrow aisles and increasing storage density without extra costs.
- Features such as **automatic battery water replenishment** and easily accessible maintenance panels reduce downtime.

● Safety You Can Trust

- **OPS (Operator Presence System)** ensures safe operation by activating the forklift only when the driver is seated.
- Adaptive hydraulic buffers for lifting and lowering protect cargo and pallets, landing and handling the cargo securely during the whole operation.
- **Speed-limiting features** for turns and high-lift operations enhance stability in challenging conditions.
- **LED lights, HD cameras, warning systems**, and a robust overhead guard ensure safe operation even in low-visibility environments.
- **High-speed ratio gearbox** and Anti-slip technology prevent rollbacks on slopes, offering peace of mind during uphill or downhill tasks.

Overhead guard



Suspension seat



HD camera



Wide-view masts



Convenient console



MJD25——

DUAL-DRIVE SUPERIORITY WITH ALL-AROUND EXCELLENCE

● Engineered for Versatility

- Compact yet strong, MJD25 handles everything from tight containers to high-density VNA stacking.
- The advanced **quad full free mast** offers a lower mast-closed height and greater flexibility in confined spaces, with lift heights to 8 meters for versatile operations.
- With a 600mm load center and a wider side-shift range, the MJD25 provides greater stability and **higher load capacity** over similar models.



Low mast design enables handling inside containers

● Smart and Compact Design

- With an ultra-low overhead guard and a shorter overall length, the MJD25 combines a compact body with big power for superior maneuverability.
- The standard **lithium battery** setup saves space, contributing to the compact design of the whole vehicle.



A ground clearance of just 70mm

Handle steeper inclines (Up to 15%)

● Stability and Performance Redefined

- Dual rear-drive motors and a high-speed gearbox make the MJD25 more stable and capable of handling inclines up to 15%.
- A ground clearance of just 70mm gives the MJD25 better stability and visibility, ideal for low-clearance applications, outperforming front-wheel-drive models.
- **PU front wheels** offer great load support and stability, while **Rubber rear tires** ensure comfort and better traction.

Anti-slopping Design

Standard Lithium Battery

Dual Rear-drive Motors

Multiple Working Scenarios

Quad Full-free Mast

Lower Mast-closed Height

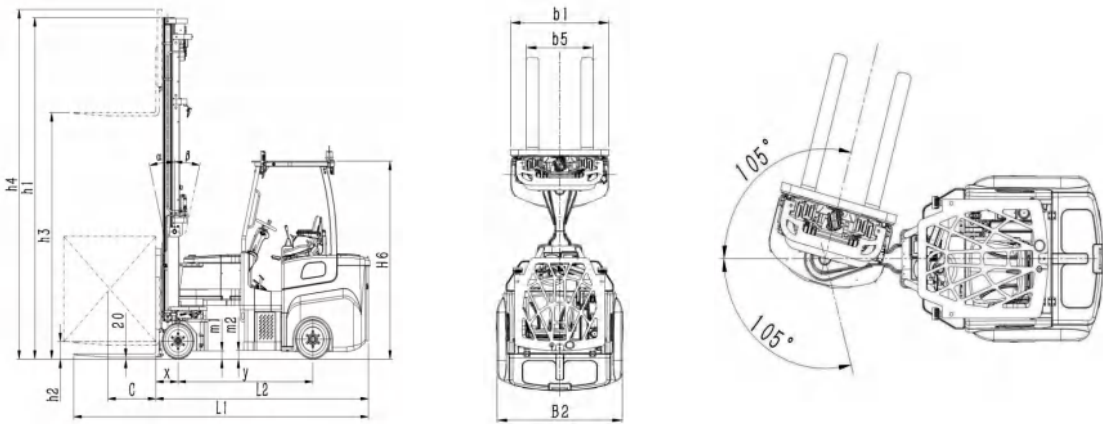


Standard Li-on battery

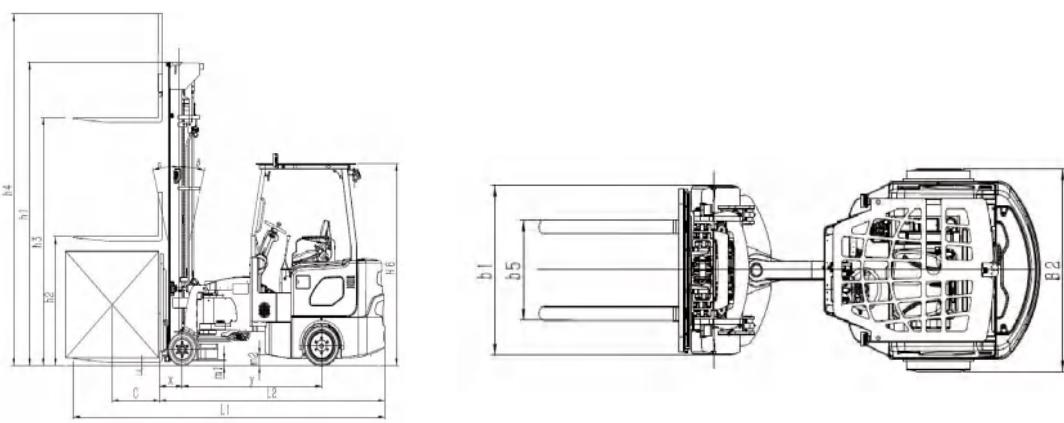
SPECIFICATION

Characteristics					
1.1	Brand		MIMA	MIMA	MIMA
1.2	Product Model		MJ	MJ	MJ
1.3	Vehicle Model Code		MJ20BSQC (Narrow Body)	MJ20BSQC (Wide Body)	MJ30BSQC (Wide Body)
1.4	Power type		Battery	Battery	Battery
1.5	Operation		Seated	Seated	Seated
1.6	Load capacity	Q(kg)	2000	2000	2500
1.7	Load center distance	C(mm)	600	600	600
1.8	Front overhang	x(mm)	285	285	310
1.9	Wheelbase	y(mm)	1720	1720	1815
Weight					
2.1	Service Weight(incl. battery)	kg	7460	8140	8220/7960 (Mast height 7m)
2.2	Axle loading, laden, front/rear	kg	5290/4250	5600/4650	5680/5040 (Mast height 7m)
2.3	Axle loading, unladen, front/rear	kg	2250/5210	2470/5670	1800/6420 (Mast height 7m)
Wheel					
3.1	Tyre type		Solid Tyre	Solid Tyre	PU/Solid Rubber
3.2	Tyre size, front	mm	2×Φ413×178	2×Φ413×178	365×178
3.3	Tyre size, rear	mm	2×Φ457×178	2×Φ457×229	18×9×12.125
3.4	Wheels number, front/rear (X=driven)		2X/2	2X/2	2/2X
3.5	Track width, front	b10(mm)	800	800	1078
3.6	Track width, rear	b11(mm)	1090	1220	1190
Dimension					
4.1	Mast tilt angle, forward/backward	α/β(°)	1/3	1/3	Refer to the mast specification
4.2	Mast rotation angle	(°)	210	210	/
4.3	Mast retracted height	h1(mm)	Refer to the mast specification	Refer to the mast specification	Refer to the mast specification
4.4	Free Lift height	h2(mm)	Refer to the mast specification	Refer to the mast specification	Refer to the mast specification
4.5	Rated Lift height	mm	3300	3300	/
4.6	Lift height	h3(mm)	4600 ~ 10000	4600 ~ 12500	Refer to the mast specification
4.7	Mast extended height	h4(mm)	Refer to the mast specification	Refer to the mast specification	Refer to the mast specification
4.8	Overhead guard height	h6(mm)	2250	2250	2260
4.9	Seat SIP point ground clearance	h7(mm)	1230	1230	1250
4.10	Overall length	L1(mm)	3830	3830	4042
4.11	Body to fork surface length	L2(mm)	2730	2730	2942
4.12	Overall width	b1/b2(mm)	980/1260	980/1400	1256/1420
4.13	Fork dimensions	s/e/l(mm)	50/100/1100	50/100/1100	1100/100/50
4.14	Installation level		II	II	2A
4.15	Fork carriage width	b3(mm)	990	990	1100
4.16	Fork outside spread	b5(mm)	250 ~ 890	250 ~ 890	1050 ~ 220
4.17	Side shift distance	mm	±100	±100	±143
4.18	Ground clearance (laden, below the mast)	m1(mm)	50	50	60
4.19	Ground clearance (laden, center of wheelbase)	m2(mm)	100	100	200
4.20	Aisle Width (800×1200 Pallet)	mm	1900	2100	2000
4.21	Efficiency aisle Pallet to pallet distance≥	mm	2000	2200	/
4.22	Pallet to pallet distance≥	mm	2200	2400	/
4.23	Other stacking aisle width	mm	Refer to the mast specification	Refer to the mast specification	/
4.24	Min. main aisle width (800×1200 Pallet)	mm	2650	2650	/
4.25	Turning radius	Wa(mm)	2200	2200	2115
Performance					
5.1	Travel Speed, laden/unladen	km/h	12/13	12/13	13/14
5.2	Lifting Speed, laden/unladen	mm/s	400/420	400/420	450/570
5.3	Lowering Speed, laden/unladen	mm/s	450/400	450/400	540/540
5.4	Max gradeability, laden/unladen	%(tanθ)	15/12	15/12	15/15
5.5	Service brake		Hydraulic	Hydraulic	Hydraulic
Drive					
6.1	Drive motor, rating S2=60	kw	AC16.3	AC16.3	AC7.5X2
6.2	Lift motor, rating S3=15%	kw	AC16	AC16	AC21
6.3	Battery voltage/nominal capacity K5	(V)/(Ah)	80/500	80/500	/
6.4	Battery weight	kg	1380	1380	260
6.5	Steering system		Hydraulic	Hydraulic	
Others					
7.1	Lithium battery voltage/nominal capacity	(V)/(Ah)	80/460	80/460	80/460

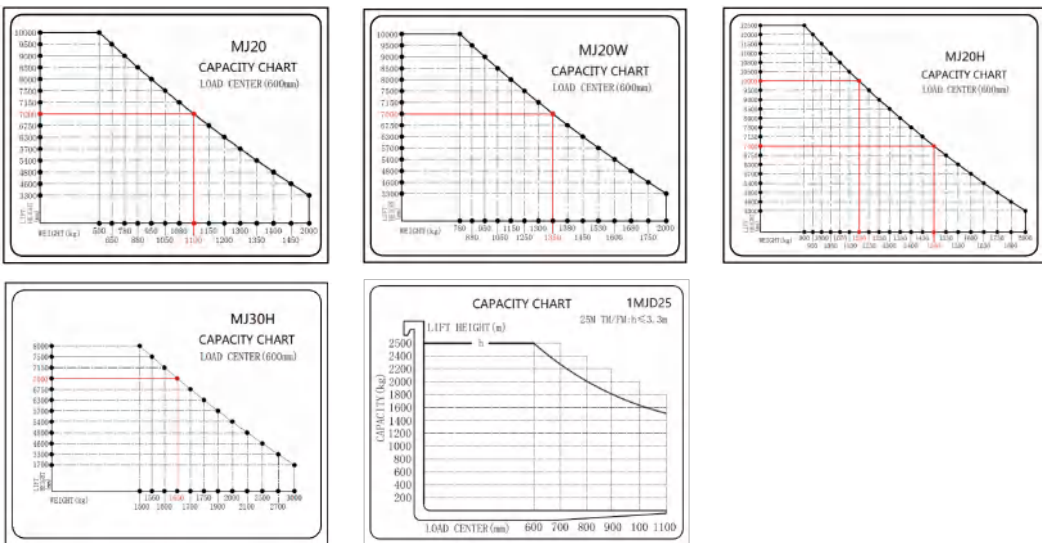
2D VIEW MJ20/30



2D VIEW MJD25



LOAD CHART



MAST PARAMETER TABLE

Triplex full free mast											
Model	MJ30SQC-	46	48	54	57	63	67	70	71	75	80
Lift height	h3(mm)	4600	4800	5400	5700	6300	6750	7000	7150	7500	8000
Mast extended height	h4(mm)	5882	6082	6682	6982	7582	8032	8282	8432	8782	9282
Mast retracted height	h1(mm)	2818	2885	3085	3185	3385	3485	3568	3618	3734	3900
Free lift height	h2(mm)	1134	1200	1400	1500	1700	1950	2034	2084	2202	2368
Triplex full free mast											
Model	MJ20SQC-	46	48	54	57	63	67	70	71	75	80
Lift height	h3(mm)	4600	4800	5400	5700	6300	6750	7000	7150	7500	8000
Mast extended height	h4(mm)	5800	6000	6600	6900	7500	7950	8200	8350	8700	9200
Mast retracted height	h1(mm)	2818	2885	3085	3185	3385	3485	3568	3618	3734	3900
Free lift height	h2(mm)	1134	1200	1400	1500	1700	1950	2034	2084	2202	2368
Triplex full free mast											
Model	MJ20SQC-	85	90	95	100	105	108	110	115	120	125
Lift height	h3(mm)	8500	9000	9500	10000	10500	10800	11000	11500	12000	12500
Mast extended height	h4(mm)	9700	10200	10700	11200	11700	12000	12200	12700	13200	13700
Mast retracted height	h1(mm)	4067	4234	4400	4567	4734	4834	4900	5067	5234	5400
Free lift height	h2(mm)	2534	2700	2868	3034	3200	3300	3368	3534	3700	3868
Note [1]: The parameters for wide-body and narrow-body frames are the same; [2]: For custom specifications, please contact us.											

Quad full-free mast (MJD25)										
Mast model	Lifting height	Mast retracted height	Mast extended height	Free lifting height (with standard load backrest)		Service Weight (incl.battery)		Standard side shift amount	Mast swing angle	Mast tilt angle
80F	8000	2795	9219	1616	1621	7970	8170	±143	±90	1/3
75F	7500	2640	8720	1461	1466	7915	8115	±143	±90	3/3
72F	7200	2545	8419	1366	1371	7882	8082	±143	±90	3/3
70F	7000	2495	8219	1316	1321	7860	8060	±143	±90	3/3
68F	6800	2420	8020	1241	1246	7838	8038	±143	±90	3/3
65F	6500	2345	7719	1166	1171	7805	8005	±143	±90	3/3
63F	6300	2295	7519	1116	1121	7783	7983	±143	±90	3/3
60F	6000	2220	7220	1041	1046	7750	7950	±143	±90	3/3
55F	5500	2095	6719	916	921	7695	7895	±143	±90	3/3
50F	5000	1970	6220	791	796	7640	7840	±143	±90	3/3
Note:1.The overall vehicle weight parameter includes the weight of approximately 32 kg for the 40L hydraulic oil; the weight of the optional forks is approximately + or - 10 kg per 100 mm.										

STACKING AISLE PARAMETER TABLE

MJ20 Narrow Body											
Pallet along fork dimensions (W)	Pallet along fork dimensions (L)										Swing angle°
	mm	1000	1100	1200	1300	1400	1500	1600	1700	1800	±105
	800	/	/	1900	2050	2150	2250	/	/	/	
	900	/	/	1950	2080	2180	2280	/	/	/	
	1000	1800	1900	2000	2100	2200	2300	2400	2500	2600	
	1100	1830	1930	2030	2130	2230	2330	2430	2530	2630	
	1200	1850	1950	2050	2150	2250	2350	2450	2550	2650	
	1300	1900	2000	2150	2200	2300	2400	2500	2600	2700	±100
	1400	2000	2100	2200	2300	2400	2500	2600	2700	2800	±95
	1500	2350	2450	2550	2650	2750	2850	2950	3050	3150	±90
	1600	2400	2500	2600	2700	2800	2900	3000	3100	3200	

MJ20W Semi-wide Body MJ20H Wide Body											
Pallet Across Fork Dimensions (W)	Pallet along fork dimensions (L)										Swing angle°
	mm	1000	1100	1200	1300	1400	1500	1600	1700	1800	±105
	800	/	/	2100	2250	2350	2450	/	/	/	
	900	/	/	2150	2280	2380	2480	/	/	/	
	1000	2000	2100	2200	2300	2400	2500	2600	2700	2800	
	1100	2030	2130	2230	2330	2430	2530	2630	2730	2830	
	1200	2050	2150	2250	2350	2450	2550	2650	2750	2850	
	1300	2100	2200	2300	2400	2500	2600	2700	2800	2900	±100
	1400	2200	2300	2400	2500	2600	2700	2800	2900	3000	±95
	1500	2350	2450	2550	2650	2750	2850	2950	3050	3150	±90
	1600	2400	2500	2600	2700	2800	2900	3000	3100	3200	

MJD25 (Quad mast)										
Pallet Cross Fork (W)	Pallet Along Fork (L)									
	mm	1000	1100	1200	1300	1400	1500	1600	1700	1800
	800	/	/	2000	2200	2300	2450	/	/	/
	900	/	/	2000	2150	2300	2450	/	/	/
	1000	1750	1850	2000	2150	2300	2450	2550	2750	2800
	1100	1750	1850	2000	2100	2250	2400	2550	2700	2800
	1200	1700	1700	1950	2100	2250	2400	2550	2650	2800
	1300	1650	1800	1950	2100	2250	2400	2500	2650	2800
	1400	1750	1800	1950	2100	2250	2400	2500	2650	2750
	1500	1800	1800	1950	2100	2250	2400	2500	2650	2750
	1600	1900	1800	1900	2100	2300	2400	2500	2650	2750