

Characteristics		
Manufacturer		MiMA
Model		MQK
Model code		MQK40
Power type		Battery
Operation		Seated
Load capacity	Q(kg)	4000
Load center distance	C(mm)	600
Front overhang	x(mm)	346
Wheelbase	y(mm)	1320
Weights		
Service weight (incl. battery)	kg	Refer to the mast specification
Wheels		
Service weight (incl. battery)		Solid Rubber Tyre
Tyre type		18×9×12.125/457×229×308
Tyre size, front		18×9×12.125/457×229×308
Tyre size, rear		2X1X
Wheels, number front/rear (X=driven)	b10(mm)	1280
Track width, front		
Dimensions		
Mast tilt angle front/rear (standard)	α/β(°)	1/3.5
Mast retracted height	h1(mm)	Refer to the mast specification
Free lift height (standard)	h2(mm)	Refer to the mast specification
Lift height	h3(mm)	Refer to the mast specification
Mast extended height	h4(mm)	Refer to the mast specification
Overhead guard height (with/without light)	h6(mm)	2400/2535
Seat SIP point ground clearance	h7(mm)	1333
Overall length	l1(mm)	3073
Length to fork face	l2(mm)	1873
Overall width	b1(mm)	1650
Fork dimensions	l/e/s(mm)	1200/150/50
Fork carriage width	b3(mm)	1650
Fork outside spread (min-max)	b5(mm)	550~1630
Ground clearance	m1(mm)	110
Aisle width	mm	Refer to the aisle specification
Unladen in-rotation diameter (Min/Max Fork outside spread)	Wk(mm)	3500/3350
Performance		
Side travel speed, laden/unladen	km/h	10~12
Straight travel speed, laden/unladen	km/h	10~12
Lifting speed, laden/unladen	mm/s	250/360
Lowering speed, laden/unladen	mm/s	280/260
Gradeability, loaded/unloaded	%	10/10
Gradeability, loaded/unloaded, sideways travel	%	10/10
Service brake		Electromagnetic
Parking brake		Electromagnetic
Motor		
Drive motor, rating S2=60	kw	AC4.5×3
Lift motor, rating S3=15%	kw	AC21
Battery voltage / rated capacity (K5)	V/Ah	80/600
Battery weight (lithium battery)	kg	450

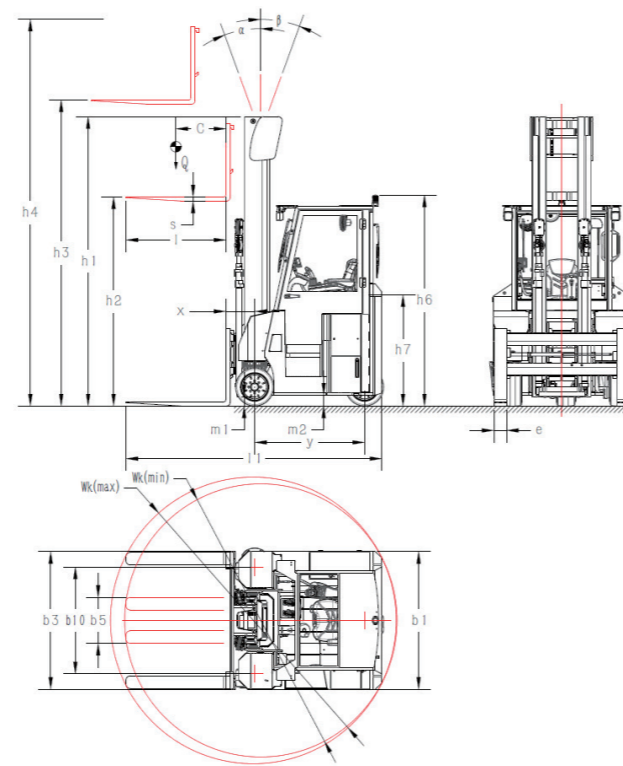
Note: 1. Equipped with adjustable forks as standard;
2. The data correspond to the standard model in this series and may vary depending on configuration.

Minimum Stacking Aisle Width Parameter

Pallet cross fork dimensions (W)	Pallet along fork dimensions (L)								
	mm	800	900	1000	1100	1200	1300	1400	1500
5000	3173	3273	3373	3473	3573	3673	3773	3873	3973
6000	3273	3373	3473	3573	3673	3773	3873	3973	4073
7000	3373	3473	3573	3673	3773	3873	3973	4073	4173
8000	3473	3573	3673	3773	3873	3973	4073	4173	4273

Note: 1. The data in the table indicate the minimum stacking aisle width, referring to the clear aisle space between two racks. When the load extends beyond the rack, the aisle distance should be increased accordingly – it is recommended to add at least twice the actual protrusion length of the load or more.
2. For efficient operation, the aisle width should be increased by 100 mm or more.

2D View



Load Parameter MQK40

Mast type	Mast model	Lifting height mm	Load capacity					
			C(mm) > @					
Triplex full-free mast	75T	7500	2250	1930	1690	1500	1350	
	70T	7000	2500	2140	1875	1670	1500	
	65T	6500	2750	2360	2060	1830	1650	
	60T	6000	3000	2570	2250	2000	1800	
	55T	5500	3125	2680	2340	2080	1875	
	50T	5000	3250	2790	2430	2170	1950	
	48T	4800	3300	2820	2475	2200	1980	
	45T	4500	3375	2890	2530	2250	2025	
	33T	3300	4000	3430	3000	2670	2400	

Note: 1. The comprehensive load capacity of other attachments needs to be calculated;
2. The lifting height of 3300 mm refers only to the lost-load height parameter; this mast height is not included in the standard configuration.

Mast parameter and self-weight MQK40

Mast type	Mast model	Lifting height	Mast retracted height	Mast extended height	Free lifting height (with standard backrest)	Service weight (including standard battery)	Mast tilt angle
Triplex full-free mast	75T	7500	3465	8501	2505	8420	1/3.5
	70T	7000	3298	8001	2338	8360	1/3.5
	65T	6500	3132	7501	2172	8300	1/3.5
	60T	6000	2965	7001	2005	8240	1/3.5
	55T	5500	2798	6501	1838	8180	1/3.5
	50T	5000	2632	6001	1672	8120	1/3.5
	48T	4800	2565	5801	1605	8095	1/3.5
45T	4500	2465	5501	1505	8055	1/3.5	

Note: The overall vehicle weight data is for reference only (the chassis weight excluding the mast is 6,400 kg).



MQK40
ELECTRIC MULTI-DIRECTIONAL COUNTERBALANCE FORKLIFT

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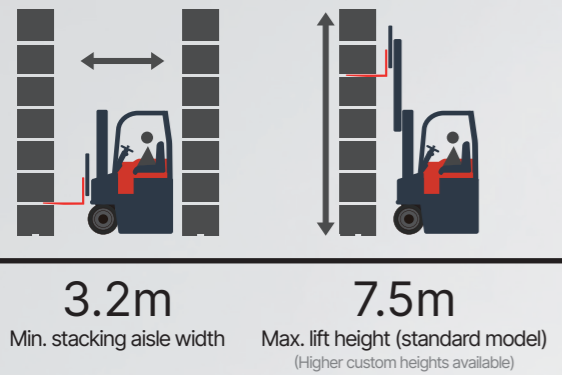


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FOR LONG MATERIAL & STANDARD PALLET HANDLING AND STACKING

Multi-directional Mobility & Efficiency, Flexibility, & Panoramic View.



The MQK40 multi-directional counterbalance forklift has a 4-ton capacity, features a tilting mast and a fork positioner. Its three-point, all-wheel-drive system with three independently steered wheels enables straight, lateral, diagonal, and in-place rotation travel, offering exceptional flexibility. It requires minimal aisles for both lateral travel (ideal for long material) and right-angle stacking (superior to standard counterbalance forklifts), making it a high-performance all-rounder.

Ideal for:

1. Handling long material.
2. Stacking in narrow aisles.
3. Outdoor bulk cargo yards.



Panoramic Visibility

- **Advanced Mast Design:** Features a unique dual-lift cylinder setup (front and rear) with the free-lift cylinder positioned to the side. Combined with a full free-lift mast, it provides visibility comparable to a two-stage mast, breaking traditional sightline limitations. This modern design distinguishes it from standard models, offering an exceptionally clear view.
- **Premium Suspension Seat:** The upgraded high-end suspension seat offers excellent load-bearing capacity and ample, powerful adjustment options. Paired with the superior cabin space, it ensures maximum operator comfort.
- **Versatile Overhead Guard:** The standard model comes with an open canopy. The MQK40 also offers optional semi-enclosed or fully enclosed cabins, providing flexible solutions for diverse working environments.

Enhanced Safety

- **All-Wheel Braking:** Superior braking performance for safer operation, even on wet or icy surfaces.
- **Efficient Lighting:** Equipped with energy-saving, low-consumption LED headlights, turn signals, and warning lights for reliable nighttime illumination and visibility.
- **Robust Construction:** A special semi-frame structure designed specifically for multi-directional forklifts, paired with a high-precision mast. Excels in high-level load handling with minimal mast sway, increasing safety during high stacking.
- **Durable Tires:** Standard imported solid rubber tires; polyurethane wheels are available as an option.



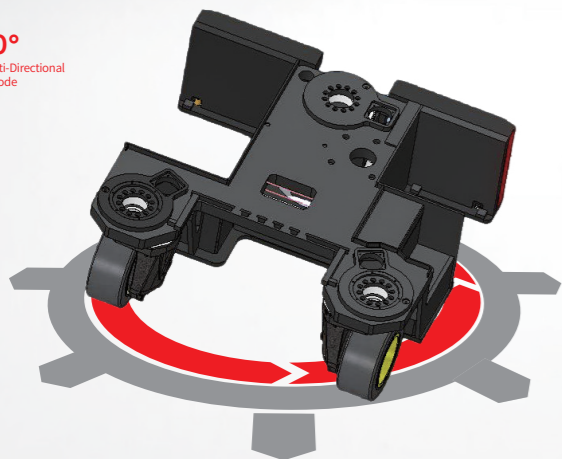
Higher Efficiency

- **Strong Endurance:** Features a full AC system with brushless AC motors for high efficiency and energy savings, meeting demands of intensive operations.
- **Maintenance-Free AC Motors:** No brush replacement costs. High-efficiency AC drive system with comprehensive protection features, integrated speed and temperature sensors for reliability and longevity.
- **Seamless Mode Switching:** Allows continuous travel mode changes without stopping, enhancing flexibility and productivity.
- **Side-Extraction Battery:** Facilitates easy battery replacement, maintenance, and servicing.

A Fork Positioner

- Equipped with a fork positioner for wide adaptability and efficient load handling.
- We can offer different types of forks to accommodate materials of different lengths. Standard forks, fork positioner, 4 forks, telescopic fork, and extra-wide fork carriages are available.

360°
360° Multi-Directional
Travel Mode



A new era in drive technology: Introducing MiMA's first all-wheel-drive model, delivering greater stability and confidence.

Console Design: Features a multifunctional joystick with adjustable armrest and a smart independent PLC display with wheel angle indication. The clean, sleek design optimizes both ease of operation and visual comfort.

Enhanced Ergonomics: Equipped with electronic power steering for effortless operation, reducing fatigue and boosting productivity.

Versatile Movement: Capable of straight, lateral, diagonal, and in-place rotation travel, significantly improving efficiency when handling long materials.

Drive Wheel Display: Shows the steering angle of the drive wheels for intuitive operation.

Operator Presence System (OPS): An active safety system enhances operational safety.



Display screen



multifunctional joystick



ADJUSTABLE SEAT



OVERHEAD GUARD



SOLID RUBBER TIRE