

ELECTRIC COUNTERBALANCE FORKLIFT

ML-MK SERIES

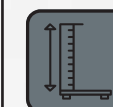


MACHLION

PRODUCT CATALOGUE



Load Capacity
4,500–5,000 kg



Max. Lifting Height
6,000 mm



Mast
Duplex or Triplex



 **MACHLION™**
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FOUR-WHEEL ELECTRIC COUNTERBALANCE FORKLIFT

ML-MK SERIES

MACHLION high-performance battery counterbalance forklift covers two tonnages: 4.5/5.0. It adopts a single-drive mechanical differential bridge design, maintenance-free full AC configuration, and a high-speed ratio gearbox to ensure greater climbing and escape. It mainly meets the needs of customers who prioritize efficiency, medium and heavy-duty working conditions, and pursues high lifting speed, high driving speed, large-capacity batteries, excellent ergonomics, and easy operation and safety.

PERFORMANCE

The drive motor adopts an advanced horizontal parallel arrangement, with the battery sinking to the bottom of the vehicle. It has a low center of gravity, good stability, and excellent turning smoothness and driving control comfort.

Adopting a new concept and novel streamlined appearance design, the visual effect is improved. The vehicle is compact and simple in appearance, strong and reliable.

LED headlights, turn signals, and warning lights are low in energy consumption, safe and reliable, and provide good lighting and warning for night operations.

COMFORT

Scientific ergonomically designed steering wheel and the seat is adjustable front and rear, providing the operator with the best driving position to choose.

The wide field of vision mast design, which is not easy to block the line of sight and provides the operator with a broad field of vision.

The new large-screen LED instrument has power display, timing and fault diagnosis functions. The human-computer interactive interface is simple and easy to understand, has excellent visibility, beautiful, elegant, and intuitive.



SAFETY

The automatic ascending&descending speed limit and descending buffer functions effectively ensure the safety of the operation, while ensuring that the goods and pallets do not impact the ground, effectively protecting the goods and the ground.

Equipped with an active driver presence safety monitoring OPS system, the operation safety is effectively improved.

The functions such as reverse braking and anti-slipping on slopes, making it safe and reliable.



INNOVATION

The internationally advanced MOSFET AC controller system enables the forklift's walking, steering, lifting, tilting and other actions to be controlled by computer programs.

The high-frequency MOSFET integrated controller ensures smooth and accurate driving, lifting control and excellent speed regulation performance.

Excellent motor-electronic control matching performance, with regenerative braking and regenerative energy (when the forklift is decelerating and going downhill, the drive motor is converted into a generator, and the battery is reverse-charged through the controller, which is energy-saving and efficient).



EFFICIENCY

The ultra-low roof guard design can meet the requirements of operating in ordinary containers and in highly limited space conditions.

The hydraulic system is equipped with side shifter to adjustment operations, which effectively improves operational convenience and thus improves working efficiency.

MAINTENANCE

The AC motor is maintenance-free, with no maintenance costs such as replacing carbon brushes. The AC power system has high efficiency, complete protection functions, built-in speed sensor, temperature sensor, high reliability and long life.

The battery is designed with side access, making it easy to replace and maintain the battery.



SPECIFICATION

Model		ML-MK45	ML-MK50
Power type		Battery	Battery
Operation		Seated	Seated
Load capacity	Q(kg)	4500	4999
Load center distance	C(mm)	500	500
Front overhang	x(mm)	530	530
Wheelbase	y(mm)	2000	2000
Service Weight(incl.battery)	kg	6800	7100
Tyre type,front/rear		Solid rubber	Solid rubber
Tyre size, rear		21×8-9-6	21×8-9-6
Tyre size, front		250-15-7.5	250-15-7.5
Wheels,number front/rear (X=driven)		2x/2	2x/2
Track width, front	b10(mm)	1225	1225
Track width, rear	b11(mm)	1025	1025
Mast tilt angle front/rear	α/β(°)	6/11	6/11
Mast retracted height	h1(mm)	Refer to the mast specification	Refer to the mast specification
Free Lift height	h2(mm)	150	155
Lift height	h3(mm)	3000	3000
Mast extended height	h4(mm)	Refer to the mast specification	Refer to the mast specification
Overhead guard height	h6(mm)	2250	2250
Seat height	h7(mm)	1230	1230
Overall length	L1(mm)	4038	4038
Body to fork surface length	L2(mm)	2968	2968
Overall width	b1/b2(mm)	1470/1350	1470/1350
Fork dimensions	l/e/s(mm)	1070/150/50	1070/150/55
Installation level(ISO2328)		3A	3A
Fork carriage width	b3(mm)	1380	1380
Fork outside spread	b5(mm)	320~1320	320~1320
Ground clearance below mast, laden	m1(mm)	120	120
Ground clearance,body	m2(mm)	120	120
Aisle width with pallet 1000*1200mm, C=500mm	Ast(mm)	4420	4420
Aisle width with pallet 800*1200mm, C=600mm	Ast(mm)	4620	4620
Turning radius	Wa(mm)	2690	2690
More aisle width	(mm)	Refer to the aisle specification	Refer to the aisle specification
Travelling speed, laden/unladen	km/h	12/13	12/13
Lift speed, laden/unladen	mm/s	200/220	200/220
Lowering speed, laden/unladen	mm/s	310/270	310/270
Traction, laden/unladen (S2-5min)	N	15400	15680
Gradeability, laden/unladen (S2-5min)	%(tanθ)	14/15	14/15
Service brake		hydraulic	hydraulic
Parking brake		Mechanical	Mechanical
Drive motor, rating S2=60	kw	AC16.6	AC16.6
Lift motor, rating S3=15%	kw	AC15	AC15
Lead-acid battery voltage/nominal capacity (standard)	V/Ah	80/560	80/630
Lead-acid battery voltage/nominal capacity (option)	V/Ah	80/630	80/700
Maximum battery capacity for side pull	V/Ah	80/630	80/630
Lead-acid battery weight(standard)	kg	1390	1690
Lithium battery voltage/nominal capacity (standard)	V/Ah	80/300	80/300
Lithium battery voltage/nominal capacity (option)	V/Ah	80/460、600	80/460、600
Lithium battery weight(standard)	kg	173	173
Hydraulic system pressure	Mpa	16	16



STANDARD CONFIURATION

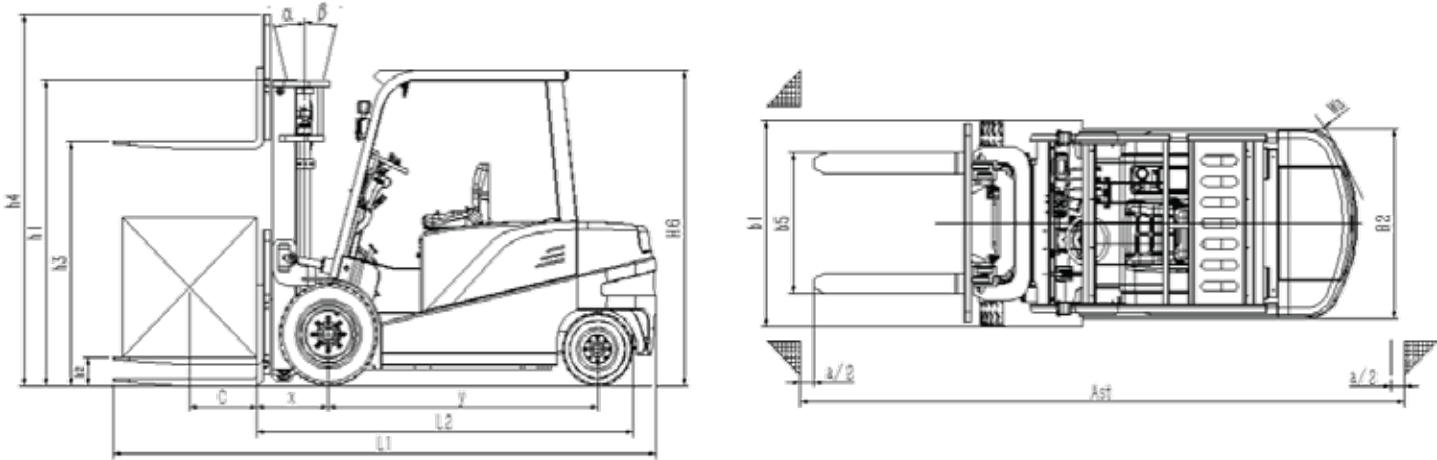
- » Inmotion controller
- » 1070mm Forks
- » Albright contactor
- » Emergency stop
- » Load backrest
- » OPS system
- » Reverse buzzer
- » Wide-angle rear-view mirror
- » Adjustable seat and steering wheel
- » USB (H&N series)
- » Multi-valve joysticks operation
- » Lead-acid battery
- » LED working lights
- » Silent warning light
- » Full AC system
- » English Instrument
- » REMA/Anderson power connector
- » Button reversing armrest (H&M)
- » Tool box



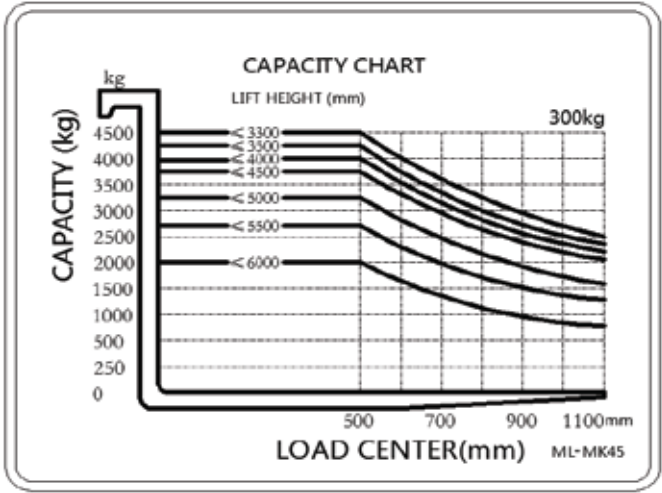
MAST SPECIFICATION

Type	Model	Lifting height	Mast closed height	Mast extended height	Free lifting height (with standard load backrest)	
		mm				
	Model▶ML-MK45/50				45	50
Duplex mast	45L	4500	2980	5765	150	155
	40L	4000	2730	5265	150	155
	37L	3700	2555	5015	150	155
	35L	3500	2430	4765	150	155
	33L	3300	2330	4565	150	155
	30L	3000	2180	4265	150	155
	27L	2700	2030	3965	150	155
	25L	2500	1930	3765	150	155
Duplex full free mast	45Q	4500	2980	5775	1705	1705
	40Q	4000	2730	5275	1455	1455
	37Q	3700	2555	5030	1280	1280
	35Q	3500	2430	4775	1155	1155
	33Q	3300	2330	4575	1055	1055
	30Q	3000	2180	4275	905	905
	27Q	2700	2030	3975	755	755
	25Q	2500	1930	3775	655	655
Triplex full free mast	60T	6000	2810	7315	1535	1535
	55T	5500	2645	6825	1370	1370
	50T	5000	2430	6325	1155	1155
	48T	4800	2360	6115	1085	1085
	45T	4500	2260	5815	985	985
	43T	4350	2210	5665	935	935
	42T	4200	2160	5515	885	885
	40T	4000	2095	5090	820	820

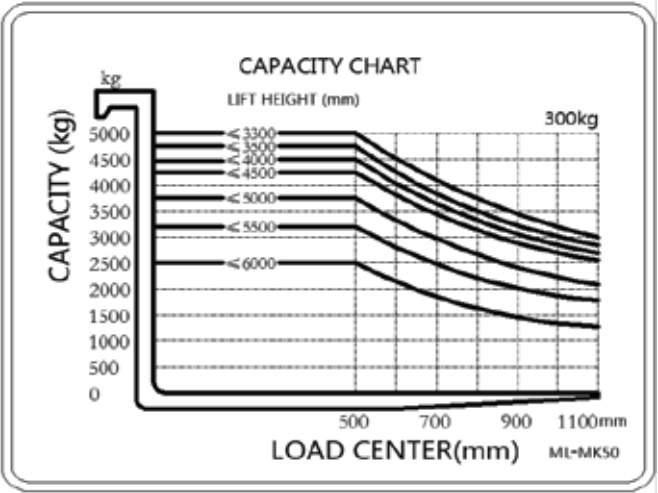
2D VIEW



CAPACITY CHART



ML-MK45



ML-MK50